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UNITED STATES DEPARTMENT OF AGRICULTURE

LIST OF TECHNICAL WORKERS IN THE DEPARTMENT OF AGRICULTURE, AND OUTLINE OF FUNCTIONS OF MAJOR BRANCHES OF THE DEPARTMENT

1927

OFFICE OF PERSONNEL AND BUSINESS ADMINISTRATION
MISCELLANEOUS PUBLICATION No. 5

UNITED STATES DEPARTMENT OF AGRICULTURE
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WASHINGTON, D. C. JULY 1, 1927

LIST OF TECHNICAL WORKERS IN THE DEPARTMENT OF AGRICULTURE, AND OUTLINE OF FUNCTIONS OF MAJOR BRANCHES OF THE DEPARTMENT

1927

Compiled in the Office of
Personnel and Business Administration

UNITED STATES
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WASHINGTON
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KEY TO ABBREVIATIONS

Acct., Accounts, Accountant.
Activ., Activities.
Admin., Administration, Administrative, Administrator.
Agr., Agricultural, Agriculturist.
Agron., Agronomist.
Agt., Agent.
An., Animal.
Apicult., Apicultural, Apiculturist.
Arbor., Arboriculture, Arboriculturist.
Assoc., Associate, Association.
Asst., Assistant.
Atty., Attorney.
Aud., Auditor, Auditing.
Bact., Bacteriology, Bacteriological, Bacteriologist.
Bibl., Bibliography, Bibliographical, Bibliographer.
Biochem., Biochemical, Biochemist.
Biol., Biological, Biologist.
Biophys., Biophysical, Biophysicist.
Bot., Botany, Botanical, Botanist.
Bur., Bureau.
Bus., Business.
Chem., Chemistry, Chemical, Chemist.
Co., County.
Coll., College.
Collab., Collaborator.
Comn., Commission.
Comr., Commissioner.
Const., Construction.
Consult., Consulting, Consultant.
Coop., Cooperation, Cooperative, Cooperator.
Cytol., Cytological, Cytologist.
Dem., Demonstration.
Dendrol., Dendrologist.
Dep., Deputy.
Dept., Department.
Dir., Director.
Dist., District.
Div., Division.
Drain., Drainage.
Ecol., Ecologist.
Econ., Economic, Economics, Economist.
Ed., Editorial, Editor.
Engr., Engineer, Engineering.
Ent., Entomology, Entomological, Entomologist.
Equip., Equipment.
Erad., Eradication.
Exam., Examiner.
Exec., Executive.
Exp., Experiment, Experimental.
Expl., Explorer.
Ext., Extension.
Fert., Fertilizers.
For., Forest, Forestry, Forester.
Forecr., Forecaster.
Geol., Geologist, Geological.
Hdqrs., Headquarters.
Hort., Horticulture, Horticultural, Horticulturist.
Husb., Husbandry, Husbandman.
Hwy., Highway.
Illustr., Illustrator.
Ind., Industry.
Insp., Inspection, Inspector.
Inv., Investigations, Investigator.
Irrig., Irrigation.
Jr., Junior.
Lab., Laboratory, Laboratorian.
Libr., Library, Librarian.
Log., Logging.
Mfg., Manufacturing.
Mech., Mechanic, Mechanical.
Med., Medical.
Met., Meteorology, Meteorological, Meteorologist.
Mgr., Manager.
Mgt., Management.
Mkt., Market, Marketing.
Microan., Microanalyst.
Micros., Microscopist.
Misc., Miscellaneous.
Mycol., Mycologist.
Nat., National.
Nematol., Nematologist.
Nutr., Nutrition.
Off., Office, Officer.
Oper., Operations.
Org., Organic, Organization.
Parasit., Parasitology, Parasitologist.
Path., Pathology, Pathological, Pathologist.
Pharmacol., Pharmacology, Pharmacologist.
Phys., Physical, Physicist.
Physiol., Physiology, Physiological, Physiologist.
Pl., Plant, Planting.
Pomol., Pomological, Pomologist.
Pred., Predatory.
Prin., Principal.
Prod., Production, Products.
Prop., Propagation, Propagating, Propagator.
Pubs., Publications.
Quar., Quarantine.
Reserv., Reservation, Reservations.
Sci., Scientific, Scientist.
Secy., Secretary.
Silv., Silviculture, Silvicultural, Silviculturist.
Sociol., Sociology.

Note.—The asterisk (*) following names in "List of Workers" is used to indicate married women (Mrs.).

Spec., Specialist.
Sr., Senior.
Sta., Station.
Stat., Statistics, Statistical, Statistician.
Substa., Substation.
Supt., Superintendent.
Supvr., Supervisor.
Surv., Survey, Surveyor.
Tech., Technical, Technician.
Technol., Technology, Technologist.
Transp., Transportation.
Univ., University.
Util., Utilization.
Vet., Veterinary, Veterinarian.
Wareh., Warehouse, Warehousing.
Zool., Zoology, Zoologist.

Note.—The asterisk (*) following names in "List of Workers" is used to indicate married women (Mrs.).

BRIEF OUTLINE OF PRINCIPAL FUNCTIONS OF MAJOR BRANCHES OF UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

The Secretary of Agriculture is charged with the work of promoting agriculture in its broadest sense. He exercises general supervision and control over the affairs of the department and formulates and establishes the general policies to be pursued by its varous branches. The general administrative staff of the department comprising the "Office of the Secretary" includes, in addition to the Secretary's immediate office, the offices of the Assistant Secretary, the Directors of Scientific, Regulatory, and Extension Work, the Director of Personnel and Business Administration, the Director of Information, and the Solicitor. The Assistant Secretary assists the Secretary in the general supervision of the work of the department and acts for the Secretary in his absence. Each of the five directors, reporting directly to the Secretary, has general supervision over all the work of the department of the type which the title of his position would imply. The Office of the Secretary as at present organized includes, in addition to the general administrative branches mentioned, the Office of Information, Office of Experiment Stations, Extension Service, the Library, and the Office of the Solicitor.

OFFICE OF PERSONNEL AND BUSINESS ADMINISTRATION

This office has general direction and supervision of the personnel and of the business operations of the department as a whole, including the coordination and improvement of such business activities of the various bureaus and offices of the department as personnel administration, organization, budget and fiscal matters, purchases and supplies, traffic, housing, and care of buildings and equipment. This office conducts the business of the department with the Civil Service Commission, the Personnel Classification Board, the Employees' Compensation Commission, the Bureau of Efficiency, the Bureau of the Budget, the General Accounting Office, the retirement division of the Pension Bureau, the various boards operating under authority of the chief coordinator, and similar agencies.

OFFICE OF INFORMATION

The Office of Information supervises the expenditure of the appropriations for printing and binding for the department; conducts all business of the department transacted with the Government Printing Office; has general supervision of all editing, printing, indexing, illustrating, binding, and distribution of publications, and the maintenance of mailing lists; maintains an addressing, duplicating, and mailing section to serve the various bureaus of the department. This office secures the circulation in popular form of the discoveries and recommendations of the scientists, specialists, and field workers of the department; gives out to the public press agricultural facts taken from publications and official orders, and also from oral statements of specialists, this material being presented in such form as to attract public attention, be easily understandable, and lead to the adoption of methods recommended; keeps in close touch with correspondents and other writers, providing suggestions and material for articles. It also furnishes daily, through broadcasting from many stations in all parts of the United States, authentic information of practical use to farmers and others concerning the discoveries made by the department and the farm practices recommended by it; answers by radio questions in all fields of agriculture and home economics; and furnishes special information on gardening to boys and girls.

LIBRARY

The Department Library, with its branch libraries in the various bureau, contains approximately 200,000 volumes on agriculture and the related sciences and receives currently 3,300 periodicals.

The dictionary card catalogue of the main library, containing more than a half million cards, is a record of the book resources of the whole department. It is supplemented by several extensive special indexes which are maintained by the various bureau libraries. These together form the most comprehensive bibliography of agriculture and the related sciences available in the United States.

The library lends its books for purposes of research to other libraries and institutions throughout the country, especially to the State agricultural colleges and experiment stations. It also furnishes bibliographical assistance and endeavors in various other ways to serve as the national agricultural library.

OFFICE OF EXPERIMENT STATIONS

The Office of Experiment Stations exercises supervision over the operations of the State agricultural experiment stations under Federal appropriations authorized by the Hatch, Adams, and Purnell Acts for research, and affords such advice and assistance as will best promote the efficiency of these activities. It also collects and disseminates information regarding similar institutions throughout the world. The experiment stations of the Department of Agriculture in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands are also conducted under the general direction of this office.

EXTENSION SERVICE

This service cooperates with the State agricultural colleges in their plans and expenditures for extension work in agriculture and home economics under the Smith-Lever Act, and acts as an agency for coordinating the extension activities of the several bureaus of the department with similar work carried on by the State agricultural colleges. It conducts demonstrations on reclamation projects to assist settlers in making a success of their farm enterprises. It also has charge of the preparation, installation, and display of agricultural exhibits at State, interstate, and international fairs and of the motion-picture activities of the department.

WEATHER BUREAU

The Weather Bureau has charge of the forecasting of the weather; the issue and display of weather forecast and storm, cold-wave, frost, and flood warnings; the gauging and reporting of river stages; the collection and transmission of marine intelligence for the benefit of commerce and navigation; the collection and furnishing of meteorological information and forecasts, including upper-air observations for the benefit of air navigation; the reporting of temperature and rainfall conditions for agricultural interests; and the taking of such meteorological observations as may be necessary to determine and record the climatic conditions of the United States.

BUREAU OF ANIMAL INDUSTRY

The Bureau of Animal Industry is primarily concerned with the protection and development of the livestock and meat industries of the United States. It conducts scientific investigations of the causes, prevention, and treatment of diseases of domestic animals; investigates the existence of communicable diseases of such animals, and aids in their control or eradication; and carries on investigations and experiments in animal husbandry and in the feeding and breeding of animals. It also is charged with the administration of the meat inspection act, the animal quarantine acts, the 28-hour law, the diseased animal transportation acts, the virus-serum-toxin act, and the act relating to the supervision of the business in interstate commerce of packers, public stockyard markets, and commission men, traders, and other agencies operating in the public stockyards markets of the United States.

BUREAU OF DAIRY INDUSTRY

The Bureau of Dairy Industry conducts investigations of the various problems of dairy production, manufacture, and utilization, and the manufacture and utilization of dairy by-products. New principles and methods developed in the investigational work of the bureau are introduced into the field. The bureau also supervises the inspection of renovated-butter factories.

BUREAU OF PLANT INDUSTRY

The activities of the Bureau of Plant Industry are primarily devoted to plant research and related problems. This work includes the study of destructive plant diseases and the establishment of methods of eradication and control; the improvement of crop, ornamental, or other plants by breeding and selection; the introduction of promising seeds and plants from foreign countries; the improvement of methods of plant production; and the utilization of plants of economic value.

Campaigns to control or eradicate certain plant diseases are conducted in cooperation with the authorities of the States concerned. The 13 States interested in spring-wheat production are cooperating to eradicate the common barberry throughout this area as a means of controlling epidemics of black stem rust of wheat. The New England, Great Lakes, and Northwestern States are cooperating in the eradication of the black currant and related plants as a means of controlling or preventing the spread of blister rust of white pine. The Gulf States are cooperating in the eradication of the canker of citrus trees and fruits.

The regulatory activities are limited to the enforcement of the Federal Seed Act.

In addition to the experimental activities of the bureau at the Arlington (Va.) Experiment Farm, which is immediately adjacent to the District of Columbia, the bureau is operating field stations or laboratories in practically all the major cropping regions of the United States and is maintaining direct cooperative experiments with the State agricultural colleges and experiment stations.

FOREST SERVICE

The Forest Service administers the national forests; cooperates with States in maintaining organized protection of forest lands against fire; conducts investigations in the entire field of forestry, including economic and industrial as well as forest research; diffuses information relating to the best use of forests and forest products; promulgates rules and regulations for the administration of grazing on national-forest ranges under general authority governing the occupancy and use of the forests; and, in short, seeks to promote the application of forestry throughout the country on both public and privately owned lands, together with efficient and economical use of their yields. The national forests comprise approximately 157 million acres of Government-owned land and contain approximately one-fifth of the timber in the United States, besides furnishing forage and recreation resources of great public value. Their administration aims to coordinate and develop to the utmost their use in the best public interest, through application of the technical methods of forestry as a subdivision of the art of agriculture. Sustained and, where possible, increased yields of water, timber, and livestock products are secured, together with provision for many other forms of use, under carefully devised management plans and systematic protection of the forests against fire and other destructive agencies. The management plans employ the scientific regulation of timber cutting and livestock grazing as means for securing reforestation and range conservation, along with full use of the annual growth obtained through such regulation.

BUREAU OF CHEMISTRY AND SOILS

This bureau was created on July 1, 1927, to take over the research work in chemistry and soils formerly conducted separately in the Bureau of Chemistry and the Bureau of Soils. The work of the bureau is organized under three units.

(1) The chemical and technological research unit applies the science of chemistry to the improvement of agriculture, develops processes for the utilization of agricultural products, and makes biological investigations of foods, including studies of their physiological effects on the human organism. It conducts experiments on the utilization, for coloring, medicinal, and technical purposes, of raw materials grown or produced in the United States; develops improved processes for grading, weighing, handling, transporting, and utilizing rosin and turpentine; conducts investigations for the development of methods of manufacturing insecticides and fungicides and studies chemical problems relating to the composition, action, and application of such materials; improves methods for dehydrating materials used for foods; and develops means to prevent farm fires and dust explosions and resulting fires, including fires in cotton gins and cotton-oil mills.

(2) The soil investigations unit studies, maps, and classifies the soils of the United States, and determines their suitability for agriculture. It investigates types of soil in relation to climate and natural vegetation and studies their chemical and physical properties and their productivity and response to fertilizers and soil amendments; conducts research in soil microbiology; and investigates the problem of soil erosion, with a view to determining the principles which should guide in the control and prevention of soil erosion.

(3) The fertilizer and fixed-nitrogen investigations unit studies the fertilizer resources of the United States. It studies the compatibility and mixing of fertilizer materials, methods of preparing such materials, and their suitability for agricultural use; investigates the economic utilization of the Nation's deposits of natural phosphate rock and the utilization of greensands as a source of potash; investigates the fixation of atmospheric nitrogen in relation to agriculture and national defense; gathers information regarding the development of nitrogen fixation in foreign countries, and codifies and makes available this information; and conducts research with a view to developing new and more efficient methods for fixing atmospheric nitrogen.

BUREAU OF ENTOMOLOGY

The Bureau of Entomology conducts investigations in economic entomology, involving studies of the life history and habits of insects injurious and those beneficial to agriculture, horticulture, and arboriculture, with a view to developing practical methods for destroying those found to be injurious and promoting the increase and spread of those found to be beneficial. It studies bee culture and beekeeping practices and investigates the life history and control of insects affecting the health of man and domestic animals. It is also engaged in checking the spread of the gipsy moth, brown-tail moth, satin moth, Japanese beetle, Asiatic beetle, European corn borer, and other dangerous foreign insect pests that have gained entry into this country.

BUREAU OF BIOLOGICAL SURVEY

The Bureau of Biological Survey investigates the relations and environmental needs of the wild life of the country, and makes recommendations and demonstrations for its conservation, economic utilization, and reasonable control, with special reference to the needs of agriculture, horticulture, stock raising, forestry, and recreation.

Information is gathered for educational and scientific purposes and as a basis for the service and regulatory work of the bureau through studies of the natural history, distribution, and classification of wild birds and other animals, native plant relationships, and biological surveys of definite areas. Investigations are made of the food habits of birds and other forms of wild-animal life, with a view to the control of the harmful and the conservation of the useful species. The bureau also conducts investigations for the improvement of Alaskan reindeer herds and for the protection and propagation in captivity of fur-bearing animals, including rabbits for meat and fur, and gives advice and assistance to organizations and individuals engaged in these new industries.

Expert leadership is provided by the bureau in cooperative control operations against injurious rodents and predatory animals. It also maintains and administers 76 national bird refuges and game preserves in continental United States and in Porto Rico, Alaska, and Hawaii, and through representation on the Alaska Game Commission lends assistance in the protection of land fur animals and game on reservations and elsewhere in Alaska.

The Bureau of Biological Survey administers the migratory-bird treaty and Lacey Acts through active patrol of hunting areas by a warden service maintained in various parts of the United States and through educational methods, to assist in the conservation of migratory game, insectivorous, and other birds and to regulate interstate traffic in wild birds and game and importations of wild birds and mammals.

BUREAU OF PUBLIC ROADS

The Bureau of Public Roads handles the engineering work of the Department of Agriculture. This work is divided into two main branches—highway engineering and agricultural engineering.

(1) The highway engineering branch deals with all highway functions of the department contemplated by the regular appropriations, including the conduct of highway research, and also with the work of administering the Federal-aid and forest road appropriations.

(2) The agricultural engineering branch conducts investigations of farm irrigation and drainage, farm machinery, farm buildings, and other rural engineering problems.

BUREAU OF AGRICULTURAL ECONOMICS

The Bureau of Agricultural Economics conducts studies of the economics of production and marketing, agricultural cooperation, farm organization, farm financial relations, farm labor, agricultural history and geography, land economics, and the problems of rural life. The bureau acquires and disseminates information regarding the marketing and distribution of farm products, and collects, compiles, summarizes, interprets, and makes public statistical data relating to agricultural production. Studies are made of marketing methods, conditions, and costs and with regard to the standardization, transportation, handling, and storage of agricultural products.

Reports are issued by the bureau which contain information on the supply, commercial movement, disposition, and market prices of fruits and vegetables, livestock and meats, dairy and poultry products, and hay, feed, and seed. Information is obtained and published also with regard to the supply of and demand for certain agricultural products in foreign countries. A market inspection service on fruits and vegetables is maintained in most of the States and a grading service on dairy products and on meats at several of the principal markets of the country.

Regulatory work is performed in connection with the enforcement of the cotton futures act, cotton standards act, grain standards act, and standard container act, and the administration of the warehouse act. The Center Market in the city of Washington is also operated by this bureau.

BUREAU OF HOME ECONOMICS

The Bureau of Home Economics conducts scientific studies of problems connected with the home, including questions of food and nutrition, economics, textiles and clothing, and housing and equipment. It assists the homemaker in the solution of these problems by sending information through bulletins, articles for newspapers and magazines, and radio releases. The bureau employs no field agents, but through the home demonstration agents under the Extension Service and the State colleges it is in close contact with homemakers and professional home economics workers.

FEDERAL HORTICULTURAL BOARD

The Federal Horticultural Board is charged with the enforcement of the plant quarantine act, regulating the importation of plants and plant products, including nursery stock, fruits, vegetables, cotton, and other plants and plant products necessary to exclude new and dangerous plant pests, as well as the movement within the United States of any plant or plant products or other article necessary to prevent the spread of new plant pests which have more or less limited foothold. The board also administers a number of special quarantine and control appropriations, such as those for the pink bollworm of cotton and the date scale, and cooperates with the Bureaus of Entomology and Plant Industry in quarantine control work under similar appropriations made to those

bureaus covering such pests as the European corn borer, Japanese beetle, gipsy and brown tail moths, black stem-rust of wheat, and blister rust of white pine.

The Federal Horticultural Board also enforces the act providing for the Mexican border inspection and control service; the act providing for export certification of domestic fruits, vegetables, seeds, and nursery stock and other plants for propagation; the insect pest act of 1905, and, in cooperation with the Post Office Department, the terminal inspection act of 1915.

GRAIN FUTURES ADMINISTRATION

The Grain Futures Administration is charged with the carrying out of the provisions of the grain futures act of September 21, 1922, which brings under the supervision of the Federal Government all trading in grain futures at grain exchanges designated as contract markets by the Secretary of Agriculture. The work consists of compiling daily reports of transactions in grain futures from all markets, in checking the dissemination of false and misleading information which affects or tends to affect the prices of grain, and in making general observations of the entire grain marketing machinery, with a view to prevent abnormal fluctuation of prices and to create market conditions which will reflect supply and demand.

FOOD, DRUG, AND INSECTICIDE ADMINISTRATION

The Food, Drug, and Insecticide Administration, made a unit of the Department of Agriculture on July 1, 1927, by a consolidation of the regulatory activities of the former Bureau of Chemistry with those of the Insecticide and Fungicide Board, enforces the food and drugs act, tea inspection act, naval stores act, insecticide and fungicide act, import milk act, and caustic poison act. As a result of this consolidation, the Insecticide and Fungicide Board has been abolished.

This administration inspects and analyzes samples of the various products coming under its surveillance, both in the field stations and in the laboratories in Washington, to the end that it may detect and cause to be removed from the channels of trade all those that fail to comply with the terms of the acts which it enforces. It assists manufacturers to keep their products in compliance with these acts and institutes legal action against those who violate the law. Its primary function is to protect the consuming public against misbranded or adulterated foods, drugs, naval stores, insecticides, and fungicides, and honest manufacturers against enforced competition with such goods.

LIST OF TECHNICAL WORKERS IN THE UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

W. M. Jardine, B. S. A., LL. D., *Secy. of Agriculture.*
F. M. Russell, *Asst. to the Secy.*
M. S. Eisenhower, B. S., *Secy. to the Secy.*
R. W. Dunlap, B. S. A., *Asst. Secy. of Agriculture.*
A. F. Woods. B. S., A. M., D. Agr., LL. D.. *Dir. of Scientific Work.*
W. G. Campbell, A. B., LL. B., *Dir. of Regulatory Work.*
C. W. Warburton, B. S. A., D. Sc., *Dir. of Extension Work.*
W. W. Stockberger, B. S., Ph. D., *Dir. of Personnel and Bus. Admin.*
W. A. Jump, *Asst. Dir. and Budget Off.*
Nelson Antrim Crawford, M. A., *Dir. of Information.*
R. W. Williams, LL. B., *Solicitor.*

OFFICE OF PERSONNEL AND BUSINESS ADMINISTRATION

W. W. Stockberger, B. S., Ph. D., *Dir.*
W. A. Jump, *Asst. Dir. and Budget Off.*

Personnel Section.
P. L. Gladmon, *Chief Personnel Off.*

Budget and Finance.
E. H. Bradley, *Asst.*
L. O. Robbins, *Asst.*

Office of Accounts (Office of the Secretary).
F. E. Singleton, *Chief.*

Division of Chief Clerk and Superintendent of Buildings.
R. M. Reese, A. B., *Chief Clerk and Supt.*
Mechanical Shops—
R. L. Swenson, B. S., *Supt.*
Mail and Files—
Joseph Haley, *in charge.*
Telephones and Telegraph—
George W. Conner, *in charge.*
Watch force—
H. T. O'Neale, *in charge.*

Division of Purchase, Sales, and Traffic.
Alex McC. Ashley, Ph. B., LL. B., A. M., *Chief of Div.*
J. M. Locknane, *Asst. Chief.*
E. E. Forbes, *Traffic Mgr.*

Division of Accounts and Disbursements.
A. Zappone, *Chief of Div.*
Cash Section—
W. J. Nevius, *in charge.*
Bookkeeping Section—
W. R. Fuchs, LL. B., *in charge.*
Examining Section—
H. G. Arnold, *in charge.*

OFFICE OF THE SOLICITOR

R. W. Williams, LL. B., *Solicitor.*
C. W. Boyle, LL. M., *Asst. Solicitor.*

Division of Food and Drugs, Insecticides and Fungicides, Seed Importation, Tea Inspection, Naval Stores, Virus-Serum Control, and Meat Inspection.
Patrick D. Cronin, A. B., LL. B., *Atty., in charge.*
J. B. O'Donnell, LL. M., *Atty.*
J. F. Moore, LL. B., *Atty.*
F. Tharin, D. C. L., *Atty.*
R. E. Mikesell, *Atty.*
W. Rawlins, LL. M., M. P. L., *Atty.*

Divison of National Forests, Grain Futures, Cotton Standards, Federal Warehouse, Excess Wool Profits, Food Products Inspection, Standard Container, Administration of Center Market, and Packers and Stockyards.
Fred Lees, A. B., LL. B., *Atty., in charge.*
J. C. Brooke, B. S., LL. B., *Atty.*
C. E. Miles, LL. B., *Atty.*
J. S. Bohannan, LL. B., *Atty.*
H. H. Clarke, LL. M., *Atty.*
H. N. Foss, LL. B., *Atty.*

Division of Acquisition of Lands.
Arthur H. McConville, LL. M., *Atty., in charge.*
J. L. Carr, *Atty.*

Division of Animal and Plant Quarantines, Federal Aid Roads, Twenty-eight Hour Law, Bee Imports, and Agricultural Colleges and Experiment Stations.
Thomas G. Shearman, A. M., LL. B., *Atty., in charge.*
B. B. Jenkins, LL. B., *Atty.*
A. McNaught, LL. B., *Atty.*

Division of Wild Life Conservation, Estate Claims, Fiscal, Personnel, Contracts, and Patents.
John P. Wenchel, A. B., LL. B., *Atty., in charge.*
G. L. Hoffman, LL. B., *Atty.*
A. J. Decker, LL. M., M. P. L., *Atty.*
R. H. Seaton, LL. M., *Atty.*
I. G. Menikheim, LL. M., *Atty.*

FIELD HEADQUARTERS:
Minnesota—Winona—
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J. A. Murphy, LL. B., *Atty.*

Division of Compilation of Laws.
Otis H. Gates, LL. B., *Atty., in charge.*

Division of Pleading, Practice, and Procedure.
James B. Horigan, A. M., LL. B., *Atty., in charge.*

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W. F. Staley, B. S., LL. M.
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North Carolina—Franklin:
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Pennsylvania—Warren:
H. Lamprey, LL. B.
Tennessee:
Bristol—
G. E. Taylor.
Johnson City—
A. S. Griggs, B. S., LL. B.
Knoxville—
J. C. Fletcher.
Virginia—Woodstock:
W. L. Newman, A. B., LL. B.
West Virginia—Elkins:
J. C. Laurent.

OFFICE OF INFORMATION

Nelson Antrim Crawford, M. A., *Dir. of Information, in charge.*

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B. D. Stallings, *Asst. Ed.*
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Zebedee La Pelle, *Ed. Asst.*
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Louise R. Joseph,* B. L., *Bibl.*
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Thomas Castor, V. M. D., *Assoc. Vet., Insp. in charge.*

Porto Rico—Rio Piedras:
Juan Veras Catala, V. S., *Vet. Insp., Insp. in charge.*

Texas:
El Paso—
T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge.*
Houston—
C. F. Palmer, D. V. S., *Assoc. Vet., Insp. in charge.*
San Antonio—
Wm. Thompson, M. D. C., *Assoc. Vet., Insp. in charge.*

Vermont—Newport:
J. E. Spindler, V. M. D., *Asst. Vet., Insp. in charge.*

Washington:
Seattle—
C. L. Norris, D. V. S., *Assoc. Vet., Insp. in charge.*
Spokane—
E. D. Kennedy, D. V. S., *Assoc. Vet., Insp. in charge.*

Scabies and Dourine Eradication.

California—Sacramento:
R. Snyder, M. D. C., *Assoc. Vet., Insp. in charge.*

Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*

Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge.*

Kentucky—Frankfort:
W. F. Biles, D. V. M., *Assoc. Vet., Insp. in charge.*

Scabies and Dourine Eradication—Contd.

Louisiana—Baton Rouge:
C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge.*

Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*

Nebraska—Lincoln:
A. H. Francis, D. V. M., *Assoc. Vet., Insp. in charge.*

New Mexico—Albuquerque:
F. L. Schneider, B. S., D. V. S., *Vet., Insp. in charge.*

North Dakota—Bismarck:
H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge.*

Oklahoma—Oklahoma City:
L. J. Allen, D. V. S., *Vet., Insp. in charge.*

South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge.*

Texas—Fort Worth:
H. L. Darby, D. V. S., *Vet., Insp. in charge.*

Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge.*

Wyoming—Cheyenne:
J. T. Dallas, B. S. A., D. V. M., *Assoc. Vet., Insp. in charge.*

TUBERCULOSIS ERADICATION DIVISION

J. A. Kiernan, V. S., *Sr. Vet., Chief.*
A. E. Wight, M. D. V., *Vet., Asst. Chief.*
L. B. Ernest, D. V. M., *Assoc. Vet.*
Elmer Lash, D. V. S., *Assoc. Vet.*

FIELD STATIONS (work conducted in coop. with States):

Alabama—Birmingham—
R. E. Jackson, D. V. M., *Assoc. Vet.*

Arkansas—Little Rock—
H. L. Fry, D. V. M., *Asst. Vet.*

California—Sacramento—
Rudolph Snyder, M. D. C., *Assoc. Vet.*

Colorado—Denver—
W. E. Howe, D. V. S., *Assoc. Vet.*

Connecticut—Hartford—
R. L. Smith, D. V. S., *Assoc. Vet.*

Florida—Tallahassee—
J. G. Fish, D. V. S., *Asst. Vet.*

Georgia—Atlanta—
A. L. Hirleman, D. V. M., *Assoc. Vet.*

Idaho—Boise—
W. A. Sullivan, D. V. M., *Assoc. Vet.*

Illinois—Chicago—
J. J. Lintner, M. D. C., *Vet.*

Indiana—Indianapolis—
J. E. Gibson, V. S., *Assoc. Vet.*

Iowa—Des Moines—
J. A. Barger, D. V. S., *Vet.*

FIELD STATIONS—Continued.
Kansas—Topeka—
N. L. Townsend, V. M. D., *Assoc. Vet.*
Kentucky—Frankfort—
W. F. Biles, D. V. M., *Assoc. Vet.*
Louisiana—New Orleans—
G. T. Cole, V. M. D., *Assoc. Vet.*
Maine—Augusta—
G. R. Caldwell, V. S., *Assoc. Vet.*
Maryland—Baltimore—
E. B. Simonds, D. V. M., *Assoc. Vet.*
Massachusetts—Boston—
E. A. Crossman, D. V. M., *Vet.*
Michigan—Lansing—
T. S. Rich, D. V. M., *Vet.*
Minnesota—St. Paul—
W. J. Fretz, D. V. S., *Vet.*
Mississippi—Jackson—
Hartwell Robbins, D. V. S., *Assoc. Vet.*
Missouri—Jefferson City—
Ralph Graham, D. V. M., *Vet. Insp.* (*Coop.*).
Montana—Helena—
J. W. Murdoch, D. V. S., *Assoc. Vet.*
Nebraska—Lincoln—
A. H. Francis, D. V. M., *Assoc. Vet.*
New Jersey—Trenton—
W. G. Middleton, D. V. M., *Assoc. Vet.*
New Mexico—Albuquerque—
F. L. Schneider, B. S., D. V. S., *Vet.*
New York—Albany—
H. B. Leonard, D. V. M., *Vet.* (*Coop.*).
North Carolina—Raleigh—
W. C. Dendinger, D. V. M., *Assoc. Vet.*
North Dakota—Bismarck—
H. H. Cohenour, D. V. M., *Assoc. Vet.*
Ohio—Columbus—
A. J. DeFosset, D. V. M., *Assoc. Vet.*
Oklahoma—Oklahoma City—
L. J. Allen, V. S., *Vet.*
Oregon—Portland—
S. B. Foster, D. V. S., *Assoc. Vet.*
Pennsylvania—Harrisburg—
J. B. Reidy, D. V. M., *Assoc. Vet.*
South Carolina—Columbia—
W. K. Lewis, D. V. S., *Vet.* (*Coop.*).
South Dakota—Pierre—
J. O. Wilson, D. V. M., *Assoc. Vet.*
Tennessee—Nashville—
H. M. O'Rear, D. V. M., *Assoc. Vet.*
Texas—Fort Worth—
H. L. Darby, D. V. S., *Vet.*
Utah—Salt Lake City—
F. E. Murray, D. V. M., *Assoc. Vet.*
Vermont—Montpelier—
L. H. Adams, V. M. D., *Assoc. Vet.*
Virginia—Richmond—
R. E. Brookbank, D. V. S., *Assoc. Vet.*
Washington—Olympia—
J. C. Exline, D. V. M., *Assoc. Vet.*
West Virginia—Charleston—
H. M. Newton, D. V. M., *Assoc. Vet.* (*Coop.*).
Wisconsin—Madison—
James S. Healy, M. D. V., *Vet.*

FIELD STATIONS—Continued.
Wyoming—Cheyenne—
J. T. Dallas, B. S. A., D. V. M., *Asst. Vet.*

TICK ERADICATION DIVISION

R. A. Ramsay, D. V. S., B. S. A., *Sr. Vet., Chief.*
W. M. MacKellar, V. S., *Vet., Asst. Chief.*

FIELD STATIONS (work conducted in coop. with States):
Alabama—Birmingham—
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*
Arkansas—Little Rock—
W. A. McDonald, D. V. M., *Assoc. Vet., Insp. in charge.*
Florida—Jacksonville—
S. J. Horne, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—Baton Rouge—
C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge.*
Mississippi—Jackson—
Hartwell Robbins, D. V. S., *Assoc. Vet., Insp. in charge.*
Oklahoma—Oklahoma City—
L. J. Allen, V. S., *Vet., Insp. in charge.*
South Carolina—Columbia—
W. K. Lewis, M. D. V., *Vet.* (*Coop.*), *in charge.*
Texas—Fort Worth—
H. L. Darby, D. V. S., *Vet., Insp. in charge.*
Virginia—Suffolk—
Seaborn H. Still, D. V. S., *Asst. Vet., Acting Insp. in charge.*

ANIMAL HUSBANDRY DIVISION

E. W. Sheets, B. S. A., M. S., *Sr. An. Husb., Chief.*
William Jackson, B. S. A., *Asst. An. Husb.*

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W. H. Black, B. S., *An. Husb., in charge.*
A. T. Semple, B. S., *Assoc. An. Husb.*
E. W. McComas, B. S., *Asst. An. Husb.*

Swine.
E. Z. Russell, *An. Husb., in charge.*
S. S. Buckley, D. V. S., M. S., *Assoc. An. Husb.*
O. G. Hankins, B. S., *Assoc. An. Husb.*
J. H. Zeller, B. S., *Asst. An. Husb.*

Sheep.
D. A. Spencer, B. S., *An. Husb., in charge.*
J. I. Hardy, M. S., Ph. D., *An. Husb.*
C. G. Potts, B. S., *Assoc. An. Husb.*
Mary J. Brandon, A. B., *Jr. An. Husb.*
J. B. Tennyson, *Jr. Sci. Aid.*

Horses and Mules.
J. O. Williams, B. S. A., *An. Husb., in charge.*
S. R. Speelman, B. S. A., *Asst. An. Husb.*

Poultry.

M. A. Jull, B. S. A., M. Sc., Ph. D., *Poultry Husb., in charge.*
A. R. Lee, B. S., *Assoc. Poultry Husb.*
J. P. Quinn, *Chief Sci. Aid.*
S. Haynes, *Chief Sci. Asst.*

Animal Genetics.

H. C. McPhee, Sc. D., *An. Husb., in charge.*
O. N. Eaton, M. S., *Asst. An. Husb.*
Bradford Knapp, jr., M. S., *Agt. in An. Husb.*

Nutrition.

Paul E. Howe, M. A., Ph. D., *Biol. Chem., in charge.*
N. R. Ellis, B. S., M. S., *Assoc. Chem. (soft pork).*
H. W. Titus, B. A., M. A., *Assoc. Biol. Chem. (poultry).*
H. G. Barott, E. E., *Assoc. Phys. (poultry).*
W. B. Emerson, M. E., *Assoc. Biophys. (poultry).*
S. J. Dahl, M. S., *Jr. Chem. (soft pork).*
F. C. Hilberg, B. S., *Jr. Chem. (meat inv.).*
W. A. Hendricks, *Asst. Sci. Aid (meat inv.).*
John W. Knowlton, *Jr. Sci. Aid (meat inv.).*
Emma A. Pringle*, *Asst. Sci. Aid (poultry).*
W. R. Kauffman, *Under Sci. Helper (poultry).*
E. McNally, *Under Sci. Helper (poultry).*
Barbara F. Glessing, A. B., *Sr. Translator (meat inv.).*

Meat.

K. F. Warner, A. B., M. S., *Assoc. An. Husb., in charge.*
H. N. Baker, B. S., *Asst. An. Husb.*
J. E. Dick, B. S., *Sci. Aid.*

Extension.

C. D. Lowe, D. V. M., *Ext. An. Husb.* (in coop. with Off. of Coop. Ext. Work).
H. L. Shrader, B. S., *Ext. Poultry Husb.* (in coop. with Off. of Coop. Ext. Work).

Animal Husbandry Experiment Farm, Beltsville, Md. (beef cattle, swine, sheep, poultry, and horse inv.).

B. F. Brandon, B. S. A., *Assoc. An. Husb., in charge.*
C. S. Kelleher, *Chief Engr. Aid.*
T. D. John, *Sci. Aid.*

Field Stations.

Arizona—
Glendale (Poultry Exp. Sta.)—
B. Heywang, B. S. A., *Assoc. Poultry Husb., in charge.*
Tempe (sheep and goat inv., in coop. with Ariz. Exp. Sta., N. Mex. Exp. Sta., and Bur. of Agr. Econ.)—
K. K. Henness, B. S., M. S., *in charge.*

Field Stations—Continued.

Arkansas—Jonesboro (beef cattle inv., in coop. with Ark. Exp. Sta. and First Dist. Agr. School)—
H. W. Hollard, B. S., M. S., *Agt. in An. Husb. (Coop.), in charge.*

Connecticut—Storrs (horse inv., in coop. with Storrs Exp. Sta., Bur. of Public Roads, and Bur. Agr. Econ.)—
R. E. Simms, *Agt. in An. Husb. (Coop.), in charge.*

Idaho—Dubois (U. S. Sheep Exp. Sta.)—
W. A. Dénecke, B. S., *Assoc. An. Husb., in charge.*
J. M. Cooper, B. S., *Asst. An. Husb.*

Louisiana—Jeanerette (Iberia Livestock Exp. Farm; beef cattle, swine, and mule inv., in coop. with La. Exp. Sta.)—
W. T. Cobb, *Agt. in An. Husb., Acting in charge.*

Mississippi—McNeill (Coastal Plains Exp. Sta.; beef cattle, swine, and sheep inv., in coop. with Miss. Exp. Sta.)—
S. W. Greene, B. S. A., M. S., *Assoc. An. Husb. (Coop.), in charge.*

Missouri—
Columbia (swine inv., in coop. with Mo. Exp. Sta.)—
————, *Agt. in An. Husb. (Coop.), in charge.*
Grain Valley (beef cattle inv., in coop. with Mo. Exp. Sta.)—
C. S. Maddox, B. S., *Jr., An. Husb. (Coop.), in charge.*

Montana—
Havre (beef cattle inv., in coop. with Mont. Exp. Sta.)—
George W. Morgan, B. S. (Bur. of Pl. Ind.), *in charge.*
Huntley (swine inv., in coop. with Mont. Exp. Sta.)—
Dan Hansen (Bur. of Pl. Ind.), *in charge.*
Miles City (beef cattle, sheep, swine, horse, and poultry inv., in coop. with Mont. Exp. Sta.)—
J. R. Quesenberry, B. S. A. M. S., *An. Husb., in charge.*
A. L. Baker, B. S., *Asst. An. Husb.*
E. B. Krantz, B. S. A., M. S., *Asst. An. Husb.*
R. E. Hutton, B. S. A., *Jr. An. Husb.*

South Dakota—
Ardmore (beef cattle and swine inc.)—
Q. R. Mathews, M. S. (Bur. of Pl. Ind.), *in charge.*

Field Stations—Continued.
South Dakota—Continued.
Newell (Belle Fourche Exp. Farm; swine and sheep inv.)—
Beyer Aune, B. Agr., *Assoc. Agron.* (Bur. of Pl. Ind.), *in charge.*
Spearfish (beef cattle inv., in coop. with Exp. Stations in Northern Great Plains area)—
M. B. Johnson, *Agt. in An. Husb., in charge.*
Texas—
Sonora (beef cattle inv., in coop. with Texas Exp. Sta. and Bur. of Agr. Econ.)—
J. N. Tate, *Collaborator (Bur. of Agr. Econ.), in charge.*
Stamford (beef cattle inv., in coop. with Western Range States)—
V. V. Parr, B. S., *Assoc. An. Husb., in charge.*
Vermont—Middlebury (Morgan Horse Farm; horse, sheep, and beef cattle inv.)—
J. A. Stoehr, B. S., *Jr. An. Husb., Acting in charge.*
West Virginia—Lewisburg (beef cattle inv., in coop. with W. Va. Exp. Sta.)—
R. H. Tuckwiller, B. S., *Agt. in An. Husb., in charge.*

BIOCHEMIC DIVISION

M. Dorset, B. S., M. D., D. V. M., *Sr. Biochem., Chief.*
James A. Emery, M. D., *Biochem., Asst. Chief.*

Hog-Cholera Investigations.
Chief of Div. in charge.
F. W. Tilley, A. B., M. D., *Assoc. Bact.*
R. R. Henley, M. S., *Assoc. Biochem.*
Henry E. Moskey. V. M. D., *Asst. Vet.*

Field Headquarters:
Iowa—Ames—
W. B. Niles, D. V. M., *Assoc. Vet., in charge.*
C. N. McBryde, M. S., M. D., Ph. D., *Assoc. Bact.*

Biochemical Investigations of Meats.
Ralph Hoagland, B. Agr., *Biochem., in charge.*
Wilmer C. Powick, B. A., *Assoc. Biochem.*
George G. Snider, A. B., *Sr. Sci. Aid.*
Harry Goldsmith, *Minor Sci. Helper.*

Dip and Disinfectant Investigations.
Robt. M. Chapin, B. A., *Biochem., in charge.*
Jacob M. Schaffer, M. S., *Assoc. Chem.*

Tuberculin and Mallein Production.
Asst. Chief of Div. in charge.
Albert M. West, B. S., *Asst. Bact.*
Percy W. LeDuc, A. B., *Jr. Chem.*
Angus D. MacDonald, D. V. M., *Jr. Vet.*

PATHOLOGICAL DIVISION

John S. Buckley, D. V. S., *Sr. Path., Chief.*
Henry J. Washburn, D. V. S., *Bact., Asst. Chief.*

General Pathology.
Robt. J. Formad, V. M. D., M. D., *Assoc. Path.*
Gilbert T. Creech, D. V. S., *Assoc. Vet.*
Branch Pathological Laboratories:
Colorado—Denver—
George W. Stiles, M. D., Ph. D., *Assoc. Bact. in charge.*
Maude E. Starcher, *Lab. Aid in Bact.*
Illinois—Chicago—
L. Enos Day, V. S., *Assoc. Vet., in charge.*
John S. Bengston, *Asst. Vet.*
Maryland—Bethesda—
Walter J. Hall, V. M. D., *Jr. Vet.*
Nebraska—Omaha—
G. Byron Morse, M. D., Ph. D., V. S., *Assoc. Bact. in charge.*

Diseases of Animals.
Henry J. Washburn, D. V. S., *Bact. (tuberculosis inv.).*
John M. Buck, D. V. M., *Assoc. Bact. (abortion inv.)*
Warren B. Shook, V. M. D., *Asst. Vet. (tuberculosis inv.).*
Hubert Bunyea, D. V. S., A. B., *Assoc. Vet. (poultry disease inv.).*
L. T. Giltner, V. M. D., M. S., *Assoc. Vet. (misc. diseases).*
William M. Mohler, D. V. M., *Asst. Vet. (misc. infectious diseases).*
Harry W. Schoening, V. M. D., *Assoc. Vet. (rabies inv.).*

Stock Poisoning by Plants.
C. Dwight Marsh, Ph. D., *Assoc. Physiol.*
Arthur B. Clawson, B. A., *Assoc. Physiol.*
Jas. F. Couch, A. M., *Assoc. Chem.*
Herbert Rogers, *Minor Sci. Helper.*

Serums, Viruses, Toxins.
William S. Gochenour, V. M. D., *Assoc. Vet. (bact. inv.).*
Harry W. Schoening, V. M. D., *Assoc. Vet. (serological inv.).*
William M. Mohler, D. V. M., *Asst. Vet. (serological inv.).*

DIVISION OF VIRUS-SERUM CONTROL

D. I. Skidmore, V. S., *Sr. Vet., Chief.*
R. E. Holm, D. V. M., *Vet., Asst. Chief.*
Field Stations and Substations:
California—Stockton—
W. J. Stewart, M. D., D. V. M., *Assoc. Vet., Insp. in charge.*
Colorado—Denver—
E. H. Carter, V. S., *Asst. Vet., Insp. in charge.*
Georgia—Albany—
C. A. Klein, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS AND SUBSTATIONS—Contd.

Illinois—

Aurora (substa. of East St. Louis)—
W. D. Livermore, D. V. M., *Asst. Vet., Insp.*

East St. Louis—
J. W. Joss, D. V. M., *Assoc. Vet., Insp. in charge.*

Whitehall (substa. of East St. Louis)—
W. T. Bollmeier, D. V. M., *Jr. Vet., Insp.*

Indiana—Indianapolis—
J. D. Stillwell, D. V. M., *Assoc. Vet., Insp. in charge.*

Noblesville (substa. of Indianapolis)—
O. C. Mayer, M. D. V., *Asst. Vet., Insp.*

Thorntown (substa. of Indianapolis)—
G. D. Ashley, D. V. M., *Asst. Vet., Insp.*

Zionsville (substa. of Indianapolis)—
Robert Thumann, D. V. M., *Asst. Vet., Insp.*

Iowa—

Des Moines (substa. of Fort Dodge)—
B. McCormack, D. V. M., *Asst. Vet., Insp.*

Fort Dodge—
D. G. Tepfer, D. V. M., *Asst. Vet., Insp. in charge.*

Muscatine (substa. of Ottumwa)—
C. P. Luneen, D. V. M., *Asst. Vet., Insp.*

Ottumwa—
E. E. Lollar, D. V. M., *Asst. Vet., Insp. in charge.*

Sioux City—
L. B. Vermillion, D. V. M., *Assoc. Vet., Insp. in charge.*

Kansas:

Hutchinson (substa. of Wichita)—
G. C. Gulick, D. V. M., *Asst. Vet., Insp.*

Kansas City—
F. A. Imler, D. V. M., *Vet., Insp. in charge.*
O. E. Herl, D. V. M., *Asst. Vet., Asst. to Insp. in charge.*

Lathrop (substa. of Kansas City, Kans.)—
J. C. Bolton, D. V. M., *Asst. Vet., Insp.*

Manhattan (substa. of Topeka, Kans.)—
H. J. Boyce, D. V. M., *Asst. Vet., Inspr.*

Topeka—
C. B. Clement, D. V. S., *Asst. Vet., Insp. in charge.*

Wichita—
F. N. Elwell, D. V. M., *Assoc. Vet., Insp. in charge.*

Minnesota—St. Paul:
C. V. Metcalf, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS AND SUBSTATIONS—Contd.

Missouri:

St. Joseph—
J. S. Clark, D. V. M., *Insp. in charge.*

South St. Joseph (substa. of St. Joseph)—
L. S. Rohrer, D. V. S., *Asst. Vet., Insp.*

West Plains—
J. F. Park, D. V. M., *Asst. Vet., Insp. in charge.*

Nebraska:

Franklin (substa. of Kansas City, Kans.)—
A. L. Faunce, M. D. C., *Asst. Vet., Insp.*

Grand Island (substa. of Omaha)—
C. D. Stein, D. V. M., *Asst. Vet., Insp.*

Hooper (substa. of Omaha)—
J. H. Cock, D. V. S., *Asst. Vet., Insp.*

Omaha—
H. H. Day, D. V. M., *Assoc. Vet., Insp. in charge.*

Ralston (substa. of Omaha)—
W. C. Hamilton, jr., D. V. M., *Asst. Vet., Insp.*

Superior (substa. of Kansas City, Kans.)—
Walter Boyce, D. V. M., *Asst. Vet., Insp.*

New York—Pearl River:
J. P. O'Leary, M. D. V., *Assoc. Vet., Insp. in charge.*

Ohio:

Columbus (substa. of Indianapolis, Ind.)—
R. N. Birdwhistell, D. V. M., *Asst. Vet., Insp.*

Fostoria (substa. of Indianapolis, Ind.)—
H. C. Berger, D. V. M., *Asst. Vet., Insp.*

Oklahoma—Oklahoma City (substa. of Wichita, Kans.):
C. L. Lash, D. V. S., *Asst. Vet., Insp.*

South Dakota—Sioux Falls (substa. of Sioux City, Iowa):
F. D. Houston, D. V. M., *Asst. Vet., Insp.*

Texas—Fort Worth:
E. T. Marsh, D. V. M., *Asst. Vet., Insp. in charge.*

ZOOLOGICAL DIVISION

Maurice C. Hall, B. S., A. M., Ph. D., D. Sc., D. V. M., *Sr. Zool., Chief.*

Parasites of Livestock.

Chief of Div. in charge.
Benjamin Schwartz, A. M., Ph. D., *Assoc. Zool.*

Parasites of Livestock—Continued.
Eloise B. Cram, M. S., Ph. D., *Assoc. Zool.*
Emmett W. Price, D. V. M., *Assoc. Parasit.*
Glenwood C. Roe, A. B., *Jr. Physiol.*
Myrna F. Jones, A. B., M. A., *Jr. Zool.*
FIELD STATIONS:
Georgia—Moultrie—
E. M. Nighbert, D. V. S., *Asst. Vet.* (*internal parasites of swine*).
Illinois—Chicago—
H. B. Raffensperger, D. V. M., *Asst. Vet.* (*internal parasites of swine*).
Kansas—Kansas City—
Marion Imes, D. V. M., M. S., *Vet.* (*external parasites*).
Louisiana—Jeanerette—
Gerald Dikmans, A. B., B. S. A., D. Sc., *Assoc. Parasit.* (*internal parasites of cattle*).
Mississippi—McNeill—
Cooper Curtice, D. V. M., M. D., *Assoc. Vet.* (*coop.*) (*internal parasites of sheep*).

Systematic Parasitology.
Albert Hassall, M. R. C. V. S., *Zool.*
Margie Potter, A. B., *Libr. Asst.*

MEAT INSPECTION DIVISION

R. P. Steddom, V. S., *Sr. Vet., Chief.*
A. J. Pistor, D. V. S., *Vet., Asst. Chief.*
E. C. Joss, B. S., D. C. M., *Vet., Asst. Chief.*
Wm. H. Smith, jr., V. M. D., *Vet., in charge of misc. work.*
F. W. Meyst, D. V. S., *Assoc. Vet., in charge of Label Section.*
Robert H. Kerr, B. S., *Chem., in charge of Meat Insp. Lab.*
FIELD STATIONS:
Alabama—
Birmingham—
W. H. Meadors, D. V. S., *Asst. Vet., Insp. in charge.*
Greenville—
A. W. Everett, *Prin. Lay Insp., in charge.*
Arizona—Phoenix—
A. J. Maloney, D. V. M., *Asst. Vet., Insp. in charge.*
Arkansas—
Fort Smith—
W. B. Nichols, *Prin. Lay Insp., in charge.*
Helena—
B. L. McCaslin, *Prin. Lay Insp., in charge.*
California—
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G. T. Irons, D. V. S., *Assoc. Vet., Insp. in charge.*
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Joel E. Cloud, V. S., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
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A. E. Graham, Ph. B., *Lab. Insp., in charge of Lab.*
Colorado—
Denver—
T. A. Shipley, D. V. S., *Assoc. Vet., Insp. in charge.*
Pueblo—
E. Himsel, D. V. M., *Asst. Vet., Insp. in charge.*
Connecticut—
Bridgeport—
Fred Hern, *Prin. Lay Insp., in charge.*
Hartford—
W. E. Jennings, *Prin. Lay Insp., in charge.*
New Haven—
S. A. Selby, D. V. S., *Asst. Vet., Insp. in charge.*
Delaware—Wilmington—
T. J. Kean. D. V. M., M. D., *Assoc. Vet., Insp. in charge.*
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H. K. Walter, D. V. M., *Assoc. Vet., Insp. in charge.*
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Atlanta—
O. W. Seher, D. V. M., *Asst. Vet., Insp. in charge.*
Augusta—
J. E. Lovejoy, D. V. S., *Assoc. Vet., Insp. in charge.*
Moultrie—
J. R. Aufente, D. V. S., *Asst. Vet., Insp. in charge.*
Idaho—
Boise—
A. J. Creely, D. V. M., *Asst. Vet., Insp. in charge.*
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James Johnston, V. S., M. D., *Asst. Vet., Insp. in charge.*
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G. C. Pieper, D. V. M., *Asst. Vet., Insp. in charge.*
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FIELD STATIONS—Continued.
Illinois—Continued.
Chicago—Continued.
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J. Robinson, D. V. M., *Asst. Vet., Insp. in charge.*
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C. F. Payne, V. S., *Vet., Insp. in charge.*
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A. N. Hughes, M. D. V., *Asst. Vet., Insp. in charge.*
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H. J. Boyer, D. V. M., *Asst. Vet., Insp. in charge.*
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FIELD STATIONS—Continued.
Iowa—Continued.
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Arkansas City—
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James Fleming, V. S., M. D., *Vet., Insp. in charge.*
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G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*
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FIELD STATIONS—Continued.
Ohio—Continued.
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W. O. McHugh, V. S., *Asst. Vet., Insp. in charge.*
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E. P. Barnhart, D. V. M., *Asst. Vet., Insp. in charge.*
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W. C. Siegmund, D. V. S., *Asst. Vet., Insp. in charge.*
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P. P. Taylor, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
South Dakota—Continued.
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L. P. McArdle, D. V. M., *Asst. Vet., Insp. in charge.*
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Chattanooga—
F. H. Collins, V. M. D., *Asst. Vet., Insp. in charge.*
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S. A. King, D. V. S., *Asst. Vet., Insp. in charge.*
Memphis—
C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge.*
Morristown—
C. P. Hart, V. S., *Asst. Vet., Insp. in charge.*
Nashville—
E. F. Cary, D. V. S., *Assoc. Vet., Insp. in charge.*
Union City—
J. H. Byerley, D. V. M., *Asst. Vet., Insp. in charge.*
Texas—
El Paso—
T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge.*
Fort Worth—
J. S. Grove, V. S., *Assoc. Vet., Insp. in charge.*
Houston—
C. F. Palmer, V. S., *Assoc. Vet., Insp. in charge.*
Texarkana—
H. G. Potter, *Prin. Lay Insp., in charge.*
Utah—
Ogden—
W. D. Wright, M. D. C., *Asst. Vet., Insp. in charge.*
Salt Lake City—
E. P. Durham, D. V. M., *Asst. Vet., Insp. in charge.*
Vermont—Hyde Park—
L. B. Whitney, D. V. S., *Asst. Vet., Insp. in charge.*
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Norfolk—
J. M. Harris, *Prin. Lay Insp., in charge.*
Richmond—
Henry Marshall, D. V. M., *Assoc. Vet., Insp. in charge.*
Washington—
Seattle—
C. L. Norris, D. V. S., *Assoc. Vet., Insp. in charge.*
Spokane—
E. D. Kennedy, D. V. S., *Assoc. Vet., Insp. in charge.*
Tacoma—
J. S. Kelly, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Washington—Continued.
Walla Walla—
C. A. Johnston, D. V. S., *Asst. Vet., Insp. in charge.*
Yakima—
S. V. Ewers, D. V. S., *Asst. Vet., Insp. in charge.*
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R. F. Vermilya, D. M. C., *Assoc. Vet., Insp. in charge.*
Wisconsin—
Eau Claire—
Wm. Fotheringham, V. S., *Asst. Vet., Insp. in charge.*
Green Bay—
W. A. Donegan, *Prin. Lay Insp., in charge.*
Madison—
L. A. Licking, D. C. M., *Asst. Vet., Insp. in charge.*
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Florida—Tallahassee—
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Georgia—Atlanta—
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W. A. Sullivan, D. V. M., *Asst. Vet., Insp. in charge.*
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J. E. Gibson, D. V. M., *Assoc. Vet., Insp. in charge.*
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FIELD STATIONS—Continued.
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W. F. Biles, D. V. M., *Assoc. Vet., Insp. in charge.*
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Ohio—Columbus—
A. J. De Fosset, D. V. M., *Assoc. Vet., Insp. in charge.*
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Stockyard Supervision—Continued.
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Pennsylvania—Grove City—
W. T. Johnson, S. B., *Assoc. Bact.*
F. R. Evans, B. S., *Jr. Bact.*
S. J. Broderick, B. S., *Asst. Chem.*

Ice Cream Investigations.
Alan Leighton, B. S., *Chem.*
P. N. Peter, B. S., *Asst. Chem.*
O. E. Williams, B. S., *Asst. Dairy Mfg. Spec.*

Nutrition of Dairy Cows.
E. B. Meigs, A. B., M. D., *Physiol.*
C. A. Cary, S. B., *Assoc. Chem.*
W. A. Turner, M. A., Ph. D., *Assoc. Chem.*
H. T. Converse, B. S., M. A., *Asst. Dairy Husb.*
T. S. Harding, B. S., *Asst. Chem.*
A. M. Hartman, B. S., *Jr. Chem.*

DAIRY CATTLE BREEDING INVESTIGATIONS

R. R. Graves, M. S., *Spec. in Dairy Cattle Breeding, in charge.*
J. R. Dawson, B. S. A., A. M., *Dairy Husb.*
M. H. Fohrman, B. S., A. M., *Dairy Husb.*
G. W. Hervey, B. S., A. M., Sc. D., *Biometrician.*
F. W. Miller, D. V. M., M. S. A., *Vet. and Physiol.*
W. W. Swett, B. S., A. M., *Dairy Husb.*
Duncan Stuart, M. S., *Assoc. Dairy Husb.*

MARKET MILK INVESTIGATIONS

Ernest Kelly, *Mkt. Milk Spec., in charge.*

Milk-Plant Management.
C. E. Clement, B. S., M. A., *Assoc. Mkt. Milk Spec.*
J. B. Bain, A. B., *Assoc. Mkt. Milk Spec.*
F. M. Grant, B. S., *Asst. Mkt. Milk Spec.*

Dairy Sanitation.
C. S. Leete, B. S., *Assoc. Mkt. Milk Spec.*
R. J. Posson, B. S. A., *Assoc. Mkt. Milk Spec.*
L. H. Burgwald, B. S. A., *Asst. Mkt. Milk Spec.*

Market Milk and Cream.
C. J. Babcock, B. S. A., *Assoc. Mkt. Milk Spec.*
C. S. Leete, B. S., *Assoc. Mkt. Milk Spec.*
R. P. Hotis, B. S. A., *Asst. Mkt. Milk Spec.*

DAIRY INTRODUCTION

J. H. McClain, B. S., *Dairy Husb., in charge.*

Dairy Manufacturing Investigations.
Wm. White, B. S. A., *Dairy Mfg. Spec.*
C. S. Trimble, B. S. A., *Assoc. Dairy Mfg. Spec.*
J. G. Winkjer, *Assoc. Dairy Husb.*
H. L. Wilson, *Assoc. Dairy Mfg. Spec.*

FIELD HEADQUARTERS:
Mississippi—A. & M. College—
Albert Fenger, *Agt. in Dairying (Coop.).*
New York—East Aurora—
A. J. Boyer, B. S., *Jr. Dairy Mfg. Spec. (Coop.).*
Ohio—Sugar Creek—
R. E. Hardell, B. S. A., *Asst. Dairy Mfg. Spec. (Coop.).*
Pennsylvania—
Grove City—
H. C. Jackson, M. S. A., Ph. D., *Assoc. Dairy Mfg. Spec. (Coop.).*
Mercer—
Sterling B. Wingard, *Agt. in Dairying (Coop.).*
Tennessee—Lebanon—
L. S. Edwards, *Dairy Mfg. Spec. (Coop.).*

Milk Utilization.
Jessie M. Hoover, M. S., *Spec. in Milk Util.*
Florence L. Hall, B. S., *Assoc. Spec. in Milk Util.*

Dairy Herd Improvement.
J. C. McDowell, M. A., Ph. D., *Dairy Husb.*
J. B. Parker, B. S. A., *Assoc. Dairy Husb.*

Dairy Herd Improvement—Continued.

W. E. Wintermeyer, B. S. A., *Assoc. Dairy Husb.*

J. B. Shepherd, B. S., *Assoc. Dairy Husb.*

Navy Butter Supervision.

C. S. Trimble, B. S. A., *Assoc. Dairy Mfg. Spec.*

Western Office, Salt Lake City, Utah.

J. E. Dorman, *Dairy Husb., in charge.*

H. R. Lochry, B. S. A., *Asst. Dairy Mfg. Spec.*

S. J. Pearce, M. S., *Asst. Mkt. Milk Spec.*

H. A. Mathieson, B. S. A., Boise, Idaho, *Agt. in Dairying (Coop.).*

DAIRY ENGINEERING

K. E. Parks, *Assoc. Dairy Engr., in charge.*

DAIRY EXPERIMENT STATIONS

Louisiana—Jeanerette—

F. S. Fletcher, M. S., *Jr. Dairy Husb.*

Maryland—Beltsville—

T. E. Woodward, M. S., *Dairy Husb., Supt.*

Montana—Huntley—

T. W. Moseley, M. S., *Assoc. Dairy Husb.*

Oklahoma—Woodward—

C. J. Stauber, *Asst. Dairy Husb.*

South Dakota—Ardmore—

D. V. Kopland, *Agt. in Dairying (Coop.).*

PUBLICATIONS AND EXHIBITS

A. B. Nystrom, M. S., *Asst. to Chief, in charge.*

LIBRARY

Carrie B. Sherfy, *Jr. Libr., in charge.*

BUREAU OF PLANT INDUSTRY

William A. Taylor, B. S., D. Sc., *Chief.*

Karl F. Kellerman, B. S., D. Sc., *Assoc. Chief.*

H. E. Allanson, B. S., *Asst. Chief.*

James M. Pickens, *Asst., in charge of Pubs.*

W. P. Cox, *Asst., in charge of Accts.*

F. E. Meloy, *Asst., in charge of Property.*

ALKALI AND DROUGHT RESISTANT CROPS

T. H. Kearney, LL. D., *Sr. Physiol., in charge.*

Egyptian Cotton Breeding Investigations.

FIELD STATION:

Arizona—Sacaton—

George J. Harrison, *Chief Sci. Aid.*

Robert H. Peebles, *Sr. Sci. Aid.*

Breeding and Physiology of Alkali and Drought Resistant Plants.

FIELD STATION:

Arizona—Sacaton—

George J. Harrison, *Chief Sci. Aid.*

ARLINGTON EXPERIMENT FARM, ROSSLYN, VA.

E. C. Butterfield, B. S., *Hort. and Supt., in charge.*

J. H. Criswell, B. S., *Assoc. Hort., Asst. Supt.*

BIOPHYSICAL LABORATORY

G. N. Collins, *Sr. Bot., in charge.*

J. O. Belz, Ph. B., M. Di., *Assoc. Biophys.*

L. H. Flint, B. S., M. S., Ph. D., *Assoc. Physiol.*

J. H. Kempton, *Assoc. Bot.*

A. E. Longley, B. S., A. M., Ph. D., *Assoc. Bot.*

John W. McLane, B. S., *Asst. Biophys.*

William D. Donahoo, *Sr. Lab. Mech.*

Harold M. Young, *Asst. Sci. Aid.*

BLISTER RUST CONTROL

Samuel B. Detwiler, B. S. F., *Sr. Path., in charge.*

Eastern Control Program.

James F. Martin, B. S., M. S., Ph. D., *Path., in charge.*

Roy G. Pierce, A. B., B. S. F., M. S. F., *Assoc. Path.*

FIELD HEADQUARTERS:

Connecticut—

East Cornwall—

Ernest D. Clark, Ph. B., M. F., *Agt., Co. Leader.*

New Haven—

James E. Riley, jr., B. S., M. F., *Asst. Path., State Leader.*

Putnam—

Herbert J. Miles, B. S., M. F., *Sr. Sci. Aid, Co. Leader.*

Maine—

Auburn—

Guy H. Kimball, *Agt., Co. Leader.*

Augusta—

Walter O. Frost, B. S. F., *Assoc. Path., State Leader.*

Arthur J. Lambert, *Agt.*

North Bridgton—

Daniel S. Curtis, *Agt., Co. Leader.*

Portland—

Solon D. Conner, B. S. F., *Agt., Co. Leader.*

Wiscasset—

John MacG. White, *Agt., Co. Leader.*

Eastern Control Program—Continued.
FIELD HEADQUARTERS—Continued.
Massachusetts—
Arlington Heights—
William T. Roop, *Agt., Co. Leader.*
Boston—
Carl C. Perry, B. S., M. F., *Agt., State Leader.*
Edmund C. Filler, B. S. F., *Path.*
John M. Corliss, *Agt.*
Kirk K. Stimson, *Agt.*
Brockton—
Earle M. Brockway, B. S., *Agt., Co. Leader.*
Gardner—
William Clave, *Agt., Co. Leader.*
Great Barrington—
William J. Endersbee, A. B., B. S. F., *Asst. Path., Co. Leader.*
Greenfield—
George S. Doore, *Agt., Co. Leader.*
Springfield—
Ralph E. Wheeler, *Agt., Co. Leader.*
Taunton—
Lewis W. Hodgkins, *Agt.*
Worcester—
Edward J. McNerney, *Agt., Co. Leader.*
Michigan—
Lansing—
David J. Stouffer, B. S., *Agt., State Leader.*
New Hampshire—
Concord—
Leonard E. Newman, *Agt., State Leader.*
Thomas J. King, *Agt., Co. Leader.*
Conway—
Stephen H. Boomer, B. S. F., *Agt., Co. Leader.*
Exeter—
Lewis C. Swain, B. S. F., *Agt., Co. Leader.*
Keene—
Frederick J. Baker, *Agt., Co. Leader.*
Lebanon—
George F. Richardson, *Agt., Co. Leader.*
Milford—
Clarence S. Herr, B. S. F., *Agt., Co. Leader.*
Rochester—
William J. Cullen, *Agt., Co. Leader.*
Woodsville—
Thomas L. Kane, *Agt., Co. Leader.*
New York—
Albany—
H. L. McIntyre, *Collab., State Leader.*
James D. Kennedy, B. S., *Agt., Asst. State Leader.*
George E. Stevens, *Agt., Co. Leader.*
Walter F. Pratt, B. S., *Co. Leader.*

Eastern Control Program—Continued.
FIELD HEADQUARTERS—Continued.
New York—Continued.
Gloversville—
John W. Charlton, B. S., *Agt., Co. Leader.*
Hudson—
Harrison G. Strait, *Agt., Co. Leader.*
Hudson Falls—
Irving S. Bowlby, B. S. F., M. F., *Agt., Co. Leader.*
Lewis—
Benjamin H. Nichols, *Agt., Co. Leader.*
Oneonta—
Harry A. Williams, *Agt., Co. Leader.*
Saratoga Springs—
Charles E. Baker, B. S., *Agt., Co. Leader.*
Warrensburg—
Noble H. Harpp, *Agt., Co. Leader.*
Ernest G. Woodward, *Agt., Co. Leader.*
Alfred E. Fivaz, B. S. F., *Agt.*
Rhode Island—Providence—
Archie W. Hurford, B. S., *Agt., State Leader.*
Ralph A. Sheals, B. S. F., *Agt.*
Vermont—
Burlington—
Sharon V. Holden, *Agt., State Leader.*
Rutland—
Wilbur E. Bradder, *Agt., Co. Leader.*
White River Junction—
Frank H. Rose, *Agt., Co. Leader.*
Wisconsin—Madison—
Herman J. Ninman, B. S., M. S., *Agt., State Leader.*

Western Control Program.
Gilbert B. Posey, B. S., M. S., *Path., in charge.*
Maude A. Thompson, *Jr. Pl. Quar. Insp.*
FIELD HEADQUARTERS.
California—
Berkeley—
Warren V. Benedict, B. S. F., *Jr. For. Path.*
Edgar C. Kenyon, B. S. F., *Agt.*
Harold R. Offord, B. A., M. A., *Agt.*
Sacramento—
George A. Root, B. S., M. S., *Asst. Path., State Leader.*
Idaho—Moscow—
Ernest E. Hubert, B. S., M. S., Ph. D., *Collab., State Leader.*
Montana—Missoula—
Charles H. Johnson, B. S. F., *Asst. Path., State Leader.*
Oregon—Corvallis—
Leslie N. Goodding, B. A., B. S. F., B. Ped., *Assoc. Path., State Leader.*

Western Control Program—Continued.
FIELD HEADQUARTERS—Continued.
Washington—Spokane—
Stephen N. Wyckoff, B. S., *Path.*
Charles R. Stillinger, A. B., M. S., *Assoc. Path.*
Jesse L. Bedwell, B. S., M. S., *Asst. Path.*
Henry N. Putnam, B. S., *Assoc. Path.*
William A. Rockie, B. S. A., *Asst. Path.*
Clarence C. Strong, B. S., *Asst. For.*
Bernard A. Anderson, B. S. F., *Jr. For.*
Frank A. Patty, B. S., *Jr. Path.*
Marvin C. Riley, B. S. F., *Jr. For.*
Philip S. Simcoe, B. S. F., *Jr. For.*
George A. Felch, B. A., *Agt.*
Wayne F. Painter, B. S. F., *Agt.*

BOTANY

Frederick V. Coville, A. B., D. Sc., *Sr. Bot., in charge.*

Economic and Systematic Botany.
A. S. Hitchcock, B. S. A., M. S., D. Sc., *Sr. Bot.*
S. F. Blake, A. M., Ph. D., *Assoc. Bot.*
Agnes Chase*, *Assoc. Bot.*
Ivar Tidestrom, Ph. B., *Asst. Bot.*
Alice C. Atwood, Ph. B., *Asst. Libr.*
Oliver M. Freeman, A. B., *Asst. Bot.*
Jason R. Swallen, B. A., M. S., *Jr. Bot.*

Weed Investigations.
M. W. Talbot, B. S., *Bot.*

CEREAL CROPS AND DISEASES

Carleton R. Ball, M. S., D. Sc., *Sr. Agron., in charge.*

Cereal Agronomy Investigations.
Max A. McCall, M. S., *Agron.*
Eastern Wheat Investigations:
Clyde E. Leighty, B. A., Ph. D., *Agron.*
William J. Sando, M. S., *Assoc. Agron.*
Western Wheat Investigations:
J. Allen Clark, M. S., *Agron.*
Karl S. Quisenberry, M. S., *Assoc. Agron.*
H. Millard Joslin, B. A., *Jr. Chem.*
John R. Hooker, LL. M., *Sci. Aid.*
Oat Investigations:
T. Ray Stanton, M. S., *Agron.*
Franklin A. Coffman, M. S., *Assoc. Agron.*
Barley Investigations:
Harry V. Harlan, M. S., D. Sc., *Sr. Agron.*
Merritt N. Pope, B. S., A. M., *Assoc. Agron.*
Mary L. Martini, B. S., *Asst. Bot.*
Lucille Reinbach, B. A., *Jr. Agr. Stat.*
Rice Investigations:
Charles E. Chambliss, M. S., *Assoc. Agron.*

Cereal Agronomy Investigations—Continued.
Corn Investigations:
Frederick D. Richey, B. S., *Agron.*
Curtis H. Kyle, B. S., *Agron.*
Harry S. Garrison, B. S., *Asst. Agron.*
Joseph M. Hammerly, *Sr. Sci. Aid.*
Grain Sorghum and Broomcorn Investigation:
John H. Martin, M. S., Ph. D., *Assoc. Agron.*
Seed Flax Investigations:
Arthur C. Dillman, M. S., *Assoc. Agron.*

Cereal Pathology Investigations.
Aaron G. Johnson, M. S., Ph. D., *Sr. Path.*
Sac and Imperfect Fungi Investigations:
Aaron G. Johnson, M. S., Ph. D., *Sr. Path.*
Cereal Rust Investigations:
Harry B. Humphrey, B. S., Ph. D., *Sr. Path.*
Barberry Eradication:
Lynn D. Hutton, M. S., *Assoc. Path.*
Cereal Smut Investigations:
————, *Path.*
Marion A. Griffiths, M. S., *Asst. Path.*
Cereal Bacteria Investigations:
————, *Assoc. Path.*

Cereal Physiology Investigations.
Annie M. Hurd-Karrer,* M. S., Ph. D., *Assoc. Physiol.*

FIELD STATIONS (Coop.):
California —
Berkeley—
Ruth F. Allen, M. A., Ph. D., *Assoc. Path. (cereal rust inv.).*
Fred N. Briggs, M. S., Ph. D., *Asst. Path. (cereal smut inv.).*
Biggs—
Jenkin W. Jones, M. S., *Assoc. Agron. and Supt. (rice inv.).*
Davis—
Victor H. Florell, M. S., *Assoc. Agron. (cereal prod. and improvement).*
Colorado—Fort Collins—
Ernest A. Lungren, M. S., *Asst. Path. (barberry erad.).*
Georgia—Athens—
Ross R. Childs, M. S., *Agt. (cereal prod. and improvement).*
Idaho—
Aberdeen—
Gustav A. Wiebe, M. S., *Asst. Agron. (cereal prod. and improvement).*
Moscow—
J. Milford Raeder, M. S., *Agt. (stripe rust inv.).*
Illinois—
Bloomington—
James R. Holbert, M. S., Ph. D., *Agron. (corn root-rot, stalk-rot, and ear-rot inv.).*

Cereal Physiology Investigations—Continued.
FIELD STATIONS (Coop.)—Continued.
Illinois—Continued.
Urbana—
Gordon C. Curran, B. S., *Assoc. Path.* (*barberry erad.*).
Indiana—La Fayette—
George N. Hoffer, A. B., M. S., D. Sc., *Path.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Benjamin H. Duddleston, M. S., *Assoc. Agron.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
John F. Trost, M. S., *Assoc. Path.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Glenn M. Smith, M. S., *Asst. Path.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Leroy E. Compton, M. S., *Asst. Path.* (*leaf rust inv.*).
Joseph C. Arthur, M. S., Sc. D., *Agt.* (*rust inv.*).
Herbert S. Jackson, A. B., *Agt.* (*rust and smut mycology*).
Wayne E. Leer, M. S., *Agt.* (*barberry erad.*).
Edwin B. Mains, A. B., Ph. D., *Agt.* (*leaf rust inv.*).
Iowa—Ames—
Merle T. Jenkins, M. S., *Assoc. Agron.* (*corn inv.*).
Arthur A. Bryan, M. S., *Asst. Agron.* (*corn inv.*).
Sherlock M. Dietz, M. S., Ph. D., *Assoc. Path.* (*oat crown-rust inv.*).
Lysle D. Leach, B. S., *Agt.* (*oat crown-rust inv.*).
Lyman C. Burnett, M. S., *Agt.* (*oat breeding inv.*).
Percy W. Rohrbaugh, B. A., *Agt.* (*barberry erad.*).
Kansas—
Manhattan—
Arthur M. Brunson, M. S., Ph. D., *Assoc. Agron.* (*corn inv.*).
Hurley Fellows, M. S., Ph. D., *Assoc. Path.* (*wheat foot-rot inv.*).
Charles O. Johnston, M. S., *Asst. Path.* (*leaf rust inv.*).
Leo E. Melchers, M. S., *Agt.* (*cereal rust and smut inv.*)
John H. Parker, M. S., *Agt.* (*cereal breeding and improvement*).
Hays—
Arthur F. Swanson, M. S., *Asst. Agron* (*cereal prod. and improvement*).
Louisiana—
Baton Rouge—
Hugo F. Stoneberg, M. S., *Asst. Agron.* (*corn inv.*).
Crowley—
J. Mitchell Jenkins, B. S., *Assoc. Agron. and Supt.* (*rice inv.*).

Cereal Physiology Investigations—Continued.
FIELD STATIONS (Coop.)—Continued.
Michigan—East Lansing—
Walter F. Reddy, LL. B., *Assoc. Path.* (*barberry erad.*).
Minnesota—St. Paul—
Olaf S. Aamodt, M. S., Ph. D., *Assoc. Path.* (*cereal breeding inv.*).
Moses N. Levine, M. S., Ph. D., *Assoc. Path.* (*stem rust inv.*)
Leonard W. Melander, M. S., *Assoc. Path.* (*barberry erad.*).
Edmund B. Lambert, M. S., Ph. D., *Asst. Path.* (*stem rust inv.*).
Jonas J. Christensen, M. S., Ph. D., *Agt.* (*stem rust inv.*).
Gilbert D. George, *Agt.* (*stem rust inv.*).
Helen Hart, M. A., *Agt.* (*stem rust inv.*).
Emil H. Ostrom, B. S., *Agt.* (*barberry erad.*).
Elvin C. Stakman, M. A., Ph. D., *Agt.* (*stem rust inv.*).
James M. Wallace, B. S., *Agt.* (*stem rust inv.*).
Edward M. Freeman, M. S., Ph. D., *Collab.* (*stem rust inv.*).
Herbert K. Hayes, M. S., Sc. D., *Collab.* (*cereal breeding inv.*).
Ralph U. Cotter, M. S., *Asst. Path.* (*stem rust inv.*).
Missouri—Columbia—
Lewis J. Stadler, B. S., A. M., Ph. D., *Agt.* (*cereal prod. and improvement*).
Montana—
Bozeman—
William L. Popham, B. S., *Agt.* (*barberry erad.*).
Moccasin—
Burton B. Bayles, M. S., *Asst. Agron.* (*cereal prod. and improvement*).
Nebraska—
Lincoln—
Albert F. Thiel, M. A., *Assoc. Path.* (*barberry erad.*).
North Platte—
George F. Sprague, M. S., *Jr. Agron.* (*cereal prod. and improvement*).
New York—Ithaca—
Lowell F. Randolph, Ph. D., *Assoc. Cytol.* (*cytology, histology, and morphology of corn*).
William T. Craig, *Agt.* (*cereal prod. and improvement*).
Ernest Dorsey, B. S., Ph. D., *Agt.* (*cytology of cereals*).
North Dakota—
Dickinson—
Ralph W. Smith, M. S., *Assoc. Agron.* (*cereal prod. and improvement*).

Cereal Physiology Investigations—Continued.
FIELD STATIONS (Coop.)—Continued.
North Dakota—Continued.
Fargo—
George C. Mayoue, M. S., *Assoc. Path.* (*barberry erad.*).
Lytton W. Boyle, M. S., *Asst. Path.* (*flax diseases*).
Mandan—
John C. Brinsmade, jr., A. B., *Asst. Agron.* (*flax inv.*).
Elmer R. Ausemus, M. S., *Jr. Agron.* (*cereal prod. and improvement*).
Ohio—Columbus—
John W. Baringer, A. B., M. S., *Assoc. Path.* (*barberry erad.*).
Oklahoma—Woodward—
John B. Sieglinger, M. S., *Assoc. Agron.* (*grain sorghum and broomcorn inv.*).
Oregon—Moro—
David E. Stephens, B. S., *Agron. and Supt.* (*cereal prod. and improvement*).
James F. Martin, B. S., *Agt.* (*cereal prod. and improvement*).
South Dakota—Brookings—
Raymond O. Bulger, B. S., *Agt.* (*barberry erad.*).
Tennessee—Knoxville—
Ludwig S. Mayer, M. S., *Asst. Agron.* (*corn inv.*).
Virginia—Rosslyn (Arlington Exp. Farm)—
Harold H. McKinney, M. S., *Path.* (*virus diseases*).
Robert W. Leukel, M. S., *Assoc. Path.* (*cereal disease inv.*).
Emery R. Ranker, B. S., M. A., Ph. D., *Assoc. Phys.* (*cereal smut inv.*).
Victor F. Tapke, B. S., Ph. D., *Assoc. Path.* (*cereal smut inv.*).
John W. Taylor, M. S., *Assoc. Agron.* (*cereal production and improvement*).
Richard S. Talbott, *Jr. Sci. Aid* (*cereal disease inv.*).
Washington—Pullman—
Edward F. Gaines, M. S., Sc. D., *Agt.* (*cereal smut inv.*).
Wisconsin—Madison—
Paul E. Hoppe, B. S., *Agt.* (*wheat scab inv.*).
Helen Johann, A. M., *Asst. Path.* (*wheat scab inv.*).
William A. Walker, M. S., *Assoc. Path.* (*barberry erad.*).
James G. Dickson, M. S., Ph. D., *Agt.* (*cereal disease inv.*).
Chester Barlow, *Asst. Sci. Aid* (*wheat scab inv.*).

CITRUS CANKER ERADICATION

Directed by Assoc. Chief of Bureau.
FIELD HEADQUARTERS:
Alabama—Mobile—
John W. Pace, M. S., *Agt.* (delegated by Comr. of Agr. of Alabama to direct all local work pertaining to erad. of citrus canker).
Florida—Gainesville—
Wilmon Newell, M. S., D. Sc., *State Pl. Comr.* (*Collab.*).
Louisiana—Baton Rouge—
W. E. Anderson, B. S., *State Ent.* (*Collab.*).
Mississippi—A. & M. College—
R. W. Harned, B. S., *State Ent.* (*Collab.*).
Texas—Austin—
J. M. Del Curto, B. S., *State Path* (*Collab.*).

COTTON, RUBBER, AND OTHER TROPICAL PLANTS

O. F. Cook, Ph. B., *Sr. Bot., in charge.*

Crop Acclimatization, Cotton Breeding, and Rubber Production Investigations.
C. B. Doyle, *Agron.*
L. G. Polhamus, *Chief Sci. Aid.*
R. L. Taylor, *Sr. Sci. Aid.*
A. D. Harvey, *Asst. Sci. Aid.*
FIELD STATIONS:
Arizona—Sacaton (U. S. Field Station)—
C. J. King, B. S., *Assoc. Agron. and Supt.*
J. S. Townsend, *Assoc. Technol.*
F. M. Eaton, M. S., Ph. D., *Asst. Physiol.*
H. F. Loomis, *Asst. Agron.*
California—
Bard (U. S. Acclimatization Garden)—
R. E. Beckett, *Prin. Sci. Aid.*
J. W. Hubbard, *Asst. Sci. Aid.*
R. S. Stitt, *Asst. Sci. Aid.*
Indio—
H. G. McKeever, *Jr. Agron.*
Shafter (U. S. Cotton Field Station)—
W. B. Camp, B. S., *Assoc. Agron.*
F. W. Herbert, *Sr. Sci. Aid.*
G. O. Belden, *Asst. Sci. Aid.*
W. E. Clark, *Asst. Sci. Aid.*
J. F. Schuh, *Asst. Sci. Aid.*
Torrey Pines (U. S. San Diego Acclimatization Garden)—
C. G. Marshall, *Asst. Agron. and Supt.*
Florida—Coconut Grove (Chapman Field Garden)—
Alfred Keys, *Assoc. Hort.*
Haiti—
Bayeux—
Laurence Bolte, *Agt.*

Crop Acclimatization, Cotton Breeding, and Rubber Production Investigations—Con.
FIELD STATIONS—Continued.
Haiti—Continued.
Thor—
F. C. Baker, B. S., *Technol. and Supt.*
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L. R. Lytton, *Asst. Sci. Aid.*
South Carolina—James Island, near Charleston (U. S. Acclimatization Field Station):
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W. W. Ballard, *Sr. Sci. Aid.*
Texas—Greenville (U. S. Cotton Breeding Field Station):
H. C. McNamara, B. S., *Assoc. Agron. and Supt.*
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Florida—Eustis—
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Havre—
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Arthur E. Seamans, B. S., *Assoc. Agron.*
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D. F. Fisher, B. S., M. H., *Path.*
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Wm. R. Barger, B. S., *Assoc. Physiol.*
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Grape Investigations.
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W. W. Tracy, jr., B. S., *Assoc. Agron.*
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P. A. Yoder, A. M., Ph. D., *Assoc. Technol.*
Ernst Artschwager, B. S., Ph. D., *Assoc. Path.*

Sugar-Cane Investigations—Continued.
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Georgia—Cairo—
P. A. Yoder, A. M., Ph. D., *Assoc. Technol.*
Louisiana—Houma—
F. D. Stevens, M. S., *Assoc. Agron.*

Sorgo Investigations (field).
Arkansas—Fort Smith:
H. B. Cowgill, M. S. A., *Asst. Agron.*

TOBACCO AND PLANT NUTRITION

W. W. Garner, A. B., Ph. D., *Sr. Physiol, in charge.*

Cigar Filler Production Investigations (field).
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G. W. Harris, *Prin. Sci. Aid.*
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Otto Olson, *Assoc. Agron.*

Flue-Cured Tobacco Production Investigations (field).
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Oxford—
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Burley Tobacco Production Investigations (field).
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Maryland Tobacco Production Investigations (field).
Maryland—Upper Marlboro:
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Dark Air-Cured Tobacco Production Investigations (field).
Virginia—Bowling Green:
W. W. Green, *Agt.*

Dark Fire-Cured Tobacco Production Investigations (field).
Tennessee—Clarksville:
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Tobacco-Disease Investigations (field).
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Wisconsin—Madison:
James Johnson, M. S., Ph. D., *Agt.*

Physiology and Nutrition of the Tobacco Plant.
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J. E. McMurtrey, jr., B. S., *Asst. Physiol.*
J. D. Bowling, jr., B. S., *Asst. Biochem.*

Effect of Length of Day on Plant Growth.
H. A. Allard, B. S., *Physiol.*
C. W. Bacon, A. M., Ph. D., *Assoc. Physiol.*
R. A. Steinberg, B. S., M. A., Ph. D., *Asst. Physiol.*

FIELD HEADQUARTERS:
Virginia—Rosslyn (Arlington Exp. Farm)—
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VEGETABLE AND FORAGE DISEASES

Directed by Assoc. Chief of Bureau.

Potato Diseases.
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Freeman Weiss, B. S., Ph. D., *Assoc. Path.*

FIELD HEADQUARTERS:
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Lawrence A. Schaal, M. S., *Asst. Path.*
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Marion B. McKay, B. S., M. S., *Agt.*
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Tomato Diseases.
Frederick J. Pritchard, B. S., *Physiol.*
William S. Porte, B. S., *Asst. Path.*

FIELD HEADQUARTERS:
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Miscellaneous Truck-Crop Diseases.
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William W. Gilbert, M. S., *Path.* (*cucurbit diseases; also cotton diseases*).
John I. Lauritzen, B. S., Ph. D., *Assoc. Path.* (*storage diseases of vegetables, and mkt. path.*).
Charles Drechsler, M. S., Ph. D., *Assoc. Path.* (*taxonomy of fungi*).
W. A. Whitney, B. S., *Jr. Path.* (*sweet potato and bean diseases*).
Lester E. Barrett, *Sci. Aid* (*culture media preparation*).
C. B. Sumner, *Asst. Sci. Aid* (*sweet potato and bean diseases*).

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Norman Chandler, *Asst. Sci. Aid* (*lettuce and misc. truck-crop diseases*).

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Fred R. Fairchild, B. A., Ph. D., *For. Taxation Econ.*
H. H. Chapman, B. S., B. Agr., M. F., *Sr. For.*
R. Clifford Hall, B. S., M. F., *Sr. For.*
L. S. Murphy, B. S., M. F., *For. Econ.*
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Forest Products Laboratory, Madison, Wis.
Carlile P. Winslow, Ph. B., *Dir.*
Aldo Leopold, Ph. B., M. F., *Assoc. Dir.*
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Kiln Drying:
H. D. Tiemann, M. E., M. F., *Phys. and Expert in Kiln Drying, in charge.*
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Publication of Results:
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J. M. Gahagan, *Asst. Engr.*
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R. F. Luxford, M. S., *Assoc. Engr.*
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Forest Products Laboratory, Madison, Wis.—Continued.

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Kenneth Wolfe, B. S., *Supvr.*
Chas. A. MacGreggor, *Asst. Supvr.*
J. C. Urquhart, *Asst. Supvr.*
St. Joe (hdqrs., St. Maries, Idaho)—
Eldon M. Myrick, *Supvr.*
James F. Brooks, B. S. F., *Asst. Supvr.*
Frank Foltz, B. S. F., *Asst. Supvr.*
George C. Earle, *Sr. Lumberman.*
Montana:
Absaroka (hdqrs., Livingston, Mont.)—
G. E. Martin, *Supvr.*
Wm. M. Rush, *Asst. Supvr.*
Beartooth (hdqrs., Billings, Mont.)—
R. Trevor Ferguson, B. S., *Supvr.*
Beaverhead (hdqrs., Dillon, Mont.)—
John B. Somers, C. E., *Supvr.*
H. W. Elofson, B. S. F., *Tech. Asst.*
W. G. Hoar, B. S., *Tech. Asst.*
Bitterroot (hdqrs., Hamilton, Mont.)—
John W. Lowell, *Supvr.*
A. C. Adams, *Asst. Supvr.*

National Forests.—Continued.
Montana—Continued.
Blackfeet (hdqrs., Kalispell, Mont.)—
James E. Ryan, *Supvr.*
Adolph Weholt, *Asst. Supvr.*
J. H. Bosworth, *Chief Lumberman.*
Cabinet (hdqrs., Thompson Falls, Mont.)—
Ray R. Fitting, *Supvr.*
Carl H. Siria, *Asst. Supvr.*
C. F. Makibbin, B. S. F., *Tech. Asst.*
Custer (hdqrs., Miles City, Mont.)—
Alva A. Simpson, *Supvr.*
Earl D. Sandvig, B. S., *Asst. Supvr.*
E. W. Hartwell, B. S. F., *Tech. Asst.*
Deerlodge (hdqrs., Butte, Mont.)—
John B. Taylor, A. B., M. F., *Supvr.*
J. N. Templer, *Asst. Supvr.*
Flathead (hdqrs., Kalispell, Mont.)—
Lloyd G. Hornby, A. B., M. S. F., *Supvr.*
C. J. Hash, *Asst. Supvr.*
W. I. White, B. S. F., *Asst. Supvr.*
James N. Diehl, B. S., *Ranger.*
Gallatin (hdqrs., Bozeman, Mont.)—
Burr W. Clark, *Supvr.*
C. B. Swim, *Asst. Supvr.*
Helena (hdqrs., Helena, Mont.)—
Arthur H. Abbott, *Supvr.*
H. H. Hendron, B. S. F., *Tech. Asst.*
Jefferson (hdqrs., Great Falls, Mont.)—
Wilford B. Willey, M. F., *Supvr.*
A. A. Brown, B. S. F., *Asst. Supvr.*
Kootenai (hdqrs., Libby, Mont.)—
Frank J. Jefferson, *Supvr.*
Justin K. Dwinelle, *Asst. Supvr.*
K. A. Klehm, *Chief Lumberman.*
J. S. Baird, *Sr. Lumberman.*
Timber Surveys—
R. W. Billings, B. S. F., *Tech. Asst.*
Lewis and Clark (hdqrs., Choteau, Mont.)—
Wm. E. Lockhart, *Supvr.*
A. D. Moir, *Asst. Supvr.*
Lolo (hdqrs., Missoula, Mont.)—
Chas. D. Simpson, B. S., *Supvr.*
Thomas A. Clapp, B. S., *Asst. Supvr.*
Madison (hdqrs., Sheridan, Mont.)—
Walter J. Derrick, *Supvr.*
F. T. Carroll, *Asst. Supvr.*
Missoula (hdqrs., Missoula, Mont.)—
W. M. Nagel, B. S. F., *Supvr.*
John H. Clack, *Asst. Supvr.*
Washington:
Kaniksu (hdqrs., Newport, Wash.)—
James C. Whitham, B. S. F., *Supvr.*
A. N. Cochrell, *Asst. Supvr.*
I. V. Anderson, B. S. F., *Asst. Supvr.*
A. B. Bowman, B. S., *Tech. Asst.*
J. E. Breen, *Log. Engr.*
Louis W. Fuess, B. S. F., *Tech. Asst.*
F. M. Cossitt, B. S., *Tech. Asst.*

DISTRICT 2—Rocky Mountain District

Colorado, Wyoming, South Dakota, Nebraska, Michigan, Minnesota, northwestern Illinois, and western Oklahoma (hdqrs., Denver, Colo.).
Allen S. Peck, Ph. B., *Dist. For.*

Public Relations.
H. D. Cochran, A. B., B. S. F., *Off. Chief.*

Law.
W. J. Ise, *Dist. Law Off.*

Finance and Accounts.
Joel I. Buckner, *Dist. Fiscal Agt.*
V. W. Campbell, *Dep. Fiscal Agt.*

Operation.
C. J. Stahl, *Asst. Dist. For.*
Peter Keplinger, Pd. B., M. S. F., *Tech. Asst.* (*training*).
M. R. Kennedy, *Admin. Asst.* (*maintenance*).

State Cooperative Fire Protection under Clarke-McNary Law.
Michigan, Minnesota, and Wisconsin (hdqrs., Duluth, Minn.):
Crosby A. Hoar, B. A., M. F., *Insp.*

Forest Management.
M. W. Thompson, B. S., M. F., *Asst. Dist. For.*
John W. Spencer, B. A., M. F., *Admin. Asst.*
Fred R. Johnson, B. S., M. F., *Tech. Asst.* (*planting*).
J. A. Donery, *Log. Engr.*

Range Management.
John H. Hatton, B. S., *Asst. Dist. For.*
Lynn H. Douglas, B. S. A., *Admin. Asst.*

Lands.
Earl W. Tinker, B. S., M. F., *Asst. Dist. For.*
T. M. Moorman, LL. B., *Admin. Asst.*

Engineering.
J. L. Brownlee, C. E., Ch. E., M. E., *Dist. Engr.*
Ress Philips, *Off. Chief* (*minor roads and trails*).
F. E. Washburn (*drafting*).
Riley Cass, jr., *Surv.*
Holland Coleman, *Surv.*
James P. Reddick, *Surv.*
Thomas J. Watkins, *Supt. Road Const.*
John B. Cammann, *Supt. Road Const.*

National Forests.
Colorado:
Arapaho (hdqrs., Hot Sulphur Springs, Colo.)—
John V. Leighou, B. S. F., *Supvr.*
Wm. L. Robb, B. S., *Admin. Asst.*
Cochetopa (hdqrs., Salida, Colo.)—
Chas. B. Mack, *Supvr.*
Eric A. Johnson, B. S. F., *Admin. Asst.*

National Forests—Continued.
Colorado—Continued.
Colorado (hdqrs., Fort Collins, Colo.)—
Wm. R. Kreutzer, LL. B., *Supvr.*
Arthur L. Nelson, B. S. F., *Admin. Asst.*
Grand Mesa (hdqrs., Grand Junction, Colo.)—
Ray Peck, *Supvr.*
Gunnison (hdqrs., Gunnison, Colo.)—
Theodore Krueger, *Supvr.*
Ray R. Clarke, *Admin. Asst.*
Holy Cross (hdqrs., Glenwood Springs, Colo.)—
Harold L. Borden, B. S. F., *Supvr.*
Victor J. Dayharsh, *Admin. Asst.*
Leadville (hdqrs., Leadville, Colo.)—
Lewis R. Rist, *Supvr.*
Allen F. Miller, B. S. F., *Admin. Asst.*
C. E. Oakley, *Tech. Asst.*
Montezuma (hdqrs., Mancos, Colo.)—
A. F. C. Hoffman, B. S. F., *Supvr.*
Fred Stell, B. S. F., *Admin. Asst.*
Pike (hdqrs., Colorado Springs, Colo.)—
Everard S. Keithley, *Supvr.*
Harry D. Petheram, *Admin. Asst.*
Gunnar K. Fenger, B. S. F., *Tech. Asst.*
Paul B. Lister, M. F., *Tech. Asst.*
W. H. Schrader, *Nurseryman, Monument Nursery. Monument, Colo.*
Rio Grande (hdqrs., Monte Vista, Colo.)—
Robert E. Clark, Ph. B., M. F., *Supvr.*
L. C. Anderson, B. S. F., *Admin. Asst.*
Routt (hdqrs., Steamboat Springs, Colo.)—
Philip V. Woodhead, *Supvr.*
Wm. B. Fay, *Admin. Asst.*
San Isabel (hdqrs., Pueblo, Colo.)—
H. E. French, B. S., M. F., *Supvr.*
San Juan (hdqrs., Durango, Colo.)—
Andrew Hutton, B. S. F., *Supvr.*
Wm. P. Apgar, B. S., M. F., *Admin. Asst.*
Uncompahgre (hdqrs., Delta, Colo.)—
S. D. Anderson, B. S., *Supvr.*
White River (hdqrs., Glenwood Springs, Colo.)—
James A. Blair, *Supvr.*
Karl L. Janouch, B. S. A., *Admin. Asst.*
Michigan:
Michigan (hdqrs., East Tawas, Mich.)—
R. G. Schreck, B. F. S., *Supvr.*
Ralph H. Johnson, *Nurseryman.*
H. C. Turner, B. S., *Nurseryman.*
Minnesota:
Minnesota (hdqrs., Cass Lake, Minn.)—
G. E. Marshall, *Supvr.*
Howard Hopkins, B. A., M. F., *Admin. Asst.*
Calvin B. Stott, B. S., M. F., *Tech. Asst.*

National Forests—Continued.
Minnesota—Continued.
Superior (hdqrs., Ely, Minn.)—
A. G. Hamel, B. S. F., *Supvr.*
R. U. Harmon, B. S. F., *Admin. Asst.*
Wm. L. Barker, jr., B. S., *Admin. Asst.*
Nebraska:
Nebraska (hdqrs., Halsay, Nebr.)—
Jay Higgins, B. S. F., *Supvr.*
Oklahoma;
Wichita (hdqrs., Cache, Okla.)—
Harry H. French, *Supvr.*
South Dakota:
Black Hills (hdqrs., Deadwood, S. Dak.)—
Geo. A Duthie, B. A., M. S. F., *Supvr.*
Fritz J. Poch, B. S. F., *Admin. Asst.*
Harney (hdqrs., Custer, S. Dak.)—
James F. Conner, *Supvr.*
Paul L. Ginter, B. S., *Admin. Asst.*
Wyoming:
Bighorn (hdqrs., Sheridan, Wyo.)—
Fred B. Agee, *Supvr.*
C. L. Van Giesen, B. S., M. F., *Admin. Asst.*
Hayden (hdqrs., Encampment, Wyo.)—
James Blackhall, *Supvr.*
Medicine Bow (hdqrs., Laramie, Wyo.)—
Huber C. Hilton, B. S. F., *Supvr.*
D. E. Clark, B. S., *Admin. Asst.*
Shoshone (hdqrs., Cody, Wyo.)—
J. N. Langworthy, *Supvr.*
Washakie (hdqrs., Lander, Wyo.)—
Wallace J. Pearce, *Supvr.*

DISTRICT 3—Southwestern district.

Arizona and New Mexico (hdqrs., Albuquerque, N. Mex.).
Frank C. W. Pooler, *Dist. For.*

Law.
E. S. French, LL. B., M. P. L., *Dist. Law Off.*

Finance and Accounts.
Albert Morris, *Dist. Fiscal Agt.*
H. B. Herms, *Dep. Fiscal Agt.*

Operation.
H. G. Calkins, B. S., *Asst. Dist. For.*
James F. Mullen, *Dist. For. Insp.*
Stanley F. Wilson, A. B., M. F., *Dist. For. Insp.*
Edward P. Ancona, B. S. F., *Sr. Admin. Asst.* (*maintenance*).

Forest Management.
Quincy Randles, B. S., M. S. F., *Asst. Dist. For.*
D. M. Lang, *Log. Engr.*
H. Basil Wales, B. F., M. F., *Dist. For. Insp.*
W. H. Long, A. M., Ph. D., *Consult. Path.* (*Bur. of Pl. Ind.*).

Range Management.
John Kerr, *Asst. Dist. For.*
David A. Shoemaker, *Grazing Exam.*
Ralph W. Hussey, B. S., *Assoc. Range Exam.*

Grazing Reconnaissance.
W. G. Koogler, *Chief of Party.*
R. V. Boyle, *Jr. Range Exam.*
L. W. Rogers, *Jr. Range Exam.*
T. L. Heggie, B. S., *Jr. Range Exam.*

Range Investigations.
C. K. Cooperrider, B. S., *Assoc. Range Exam.*
R. F. Copple, B. S., *Jr. Range Exam.*

Lands:
M. M. Cheney, LL. B., *Asst. Dist. For.*
H. D. Burrall, B. F. S., *Jr. For.*
Luther Schnur, A. B., M. A., *Jr. For.*

Engineering.
C. A. Long, C. E., *Dist. Engr.*
R. L. Hughes, *Asst. Dist. Engr. (roads).*

Public Relations.
John D. Jones, A. B., J. D., *Asst. Dist. For.*

National Forests.
Arizona:
Apache (hdqrs., Springerville, Ariz.)—
K. C. Kartchner, *Supvr.*
J. C. Roak, B. S. F., *Asst. Supvr.*
Coconino (hdqrs., Flagstaff, Ariz.)—
E. G. Miller, A. B., *Supvr.*
Robt. M. Munro, *Asst. Supvr.*
Fred Merkle, *Chief Lumberman.*
Lloyd A. Wall, B. S., M. S., *Asst. Range Exam.*
Arthur B. Young, E. M., *Supt. of Road Const.*
Kimberlin Carlisle, *Sr. Lumberman.*
Robt. F. Rhinehart, *Sr. Lumberman.*
Homer E. German, *Sr. Lumberman.*
Coronado (hdqrs., Tucson, Ariz.)—
Frederic Winn, B. S., *Supvr.*
C. W. McKenzie, *Asst. Supvr.*
Wm. John Anderson, *Asst. Supvr.*
Crook (hdqrs., Safford, Ariz.)—
Rex King, A. B., M. S. F., *Supvr.*
C. E. Moore, *Asst. Supvr.*
Prescott (hdqrs., Prescott, Ariz.)—
F. L. W. Grubb, *Supvr.*
L. J. Putsch, *Asst. Supvr.*
Sitgreaves (hdqrs., Holbrook, Ariz.)—
Paul H. Roberts, B. S. F., *Supvr.*
L. F. Cottam, *Asst. Supvr.*
Robt. C. Salton, B. S., *Asst. For.*
E. L. Hamilton, B. S., *Jr. For.*
Tonto (hdqrs., Phoenix, Ariz.)—
T. T. Swift, Ph. G., M. E., *Supvr.*
J. H. Sizer, *Asst. Supvr.*
Tusayan (hdqrs., Williams, Ariz.)—
G. W. Kimball, A. B., M. F., *Supvr.*
William T. Doherty, F. E., *Asst. Supvr.*
R. D. Norris, B. S. F., *Asst. Range Exam.*
Hugo L. Sundling, B. S., *Jr. For.*

National Forests—Continued.
New Mexico:
Carson (hdqrs., Taos, N. Mex.)—
C. R. Dwire, *Supvr.*
C. A. Merker, B. S. F., *Asst. Supvr.*
Datil (hdqrs., Magdalena, N. Mex.)—
F. L. Kirby, *Supvr.*
B. A. Hendricks, B. S., *Asst. Supvr.*
Gila (hdqrs., Silver City, N. Mex.)—
James A. Scott, *Supvr.*
L. R. Lessel, B. S. F., *Asst. Supvr.*
Lincoln (hdqrs., Alamogordo, N. Mex.)—
O. F. Arthur, *Supvr.*
Simeon Strickland, *Asst. Supvr.*
Manzano (hdqrs., Albuquerque, N. Mex.)—
John A. Adams, M. E., *Supvr.*
Jacob C. Nave, *Asst. Supvr.*
Santa Fe (hdqrs., Santa Fe, N. Mex.)—
Frank E. Andrews, *Supvr.*
M. F. Pincetl, *Asst. Supvr.*
H. O. Cassidy, B. S., *Asst. Range Exam.*
C. W. Simmons, B. S. F., M. F., *Jr. For.*
C. H. Kissam, B. F., F. E., *Supt. Road Const.*

DISTRICT 4—Intermountain District

Utah, southern Idaho, western Wyoming, Nevada, and northwestern Arizona (hdqrs., Ogden, Utah).
R. H. Rutledge, *Dist. For.*

Finance and Accounts.
Lee Stratton, *Dist. Fiscal Agt.*
A. C. Wycoff, *Dep. Fiscal Agt.*

Operation.
C. N. Woods, *Asst. Dist. For.*
Thomas V. Pearson, *Admin. Asst.*

State Cooperative Fire Protection under Clarke-McNary Law, Idaho.
C. B. Morse, M. S., *Asst. Dist. For.*

Forest Management.
C. B. Morse, M. S., *Asst. Dist. For.*
L. F. Watts, B. S., *Asst.*
U. S. Swartz, *Log. Engr.*

Range Management.
Ernest Winkler, *Asst. Dist. For.*
J. O. Stewart, *Insp. of Grazing.*
A. R. Standing, *Assoc. Range Exam.*

Lands.
R. E. Gery, *Asst. Dist. For.*
S. B. Locke, B. S., *Tech. Asst.*

Engineering.
J. P. Martin, C. E., *Dist. Engr.*
W. W. Blakeslee, *Asst.*
H. M. Shank, *Assoc. Civil Engr. (maps and surveys).*
J. P. Martin, C. E., *Dist. Engr. (roads).*
J. P. Martin, C. E., *Dist. Engr. (water power).*

Public Relations.
Dana Parkinson, A. B., M. F., *Asst. Dist. For.*

National Forests.
Arizona:
Kaibab (hdqrs., Kanab, Utah)—
Walter G. Mann, *Supvr.*
Idaho:
Boise (hdqrs., Boise, Idaho)—
Guy B. Mains, *Supvr.*
Arthur Potter, *Asst. Supvr.*
Nathan C. Schulze, *Tech. Asst.*
J. W. Stokes, *Tech. Asst.*
Caribou (hdqrs., Montpelier, Idaho)—
Earl C. Sanford, B. S., *Supvr.*
T. Dean Phinney, *Tech. Asst.*
Challis (hdqrs., Challis, Idaho)—
E. A. Renner, *Supvr.*
Idaho (hdqrs., McCall, Idaho)—
S. C. Scribner, *Supvr.*
A. A. Casner, *Asst. Supvr.*
T. W. Farrell, *Asst. Supvr.*
Lemhi (hdqrs., Mackay, Idaho)—
Oscar Mink, *Supvr.*
Minidoka (hdqrs., Burley, Idaho)—
S. S. Stewart, *Supvr.*
Payette (hdqrs., Emmett, Idaho)—
W. B. Rice, B. A., M. F., *Supvr.*
F. S. Moore, *Asst. Supvr.*
Francis Wallis, *Asst. Supvr.*
Clark Miles, *Tech. Asst.*
Thos. W. McKinley, *Tech. Asst.*
Salmon (hdqrs., Salmon, Idaho)—
John N. Kinney, *Supvr.*
Hubert B. Knipe, *Exec. Asst.*
Sawtooth (hdqrs., Hailey, Idaho)—
M. S. Benedict, *Supvr.*
Targhee (hdqrs., St. Anthony, Idaho)—
S. W. Stoddard, *Supvr.*
David A. Arrivee, B. S., *Asst. Supvr.*
Weiser (hdqrs., Weiser, Idaho)—
John Raphael, *Supvr.*
Felix C. Koziol, B. S., *Asst. Supvr.*
Bert R. Lexen, *Tech. Asst.*
Nevada:
Humboldt (hdqrs., Elko, Nev.)—
Alexander McQueen, *Supvr.*
C. E. Brackett, *Asst. Supvr.*
Nevada (hdqrs., Ely, Nev.)—
Chas. A. Beam, *Supvr.*
Toiyabe (hdqrs., Austin, Nev.)—
J. W. Gurr, *Supvr.*
Utah:
Ashley (hdqrs., Vernal, Utah)—
A. G. Nord, *Supvr.*
Cache (hdqrs., Logan, Utah)—
Carl B. Arentson, *Supvr.*
Dixie (hdqrs., Cedar City, Utah)—
Orange A. Olsen, *Supvr.*
Fishlake (hdqrs., Richfield, Utah)—
C. A. Mattsson, *Supvr.*
Chester J. Olsen, *Asst. Supvr.*
La Sal (hdqrs., Moab, Utah)—
A. C. Folster, *Supvr.*

National Forests—Continued.
Utah—Continued.
Manti (hdqrs., Ephraim, Utah)—
J. W. Humphrey, *Supvr.*
Powell (hdqrs., Panguitch, Utah)—
Wallace M. Riddle, *Supvr.*
Uinta (hdqrs., Provo, Utah)—
Chas. DeMoisy, jr., *Supvr.*
Harley J. Helm, *Asst. Supvr.*
Wasatch (hdqrs., Salt Lake City, Utah)—
E. C. Shepard, B. S., *Supvr.*
T. G. Taylor, *Asst. Supvr.*
Wyoming:
Teton (hdqrs., Jackson, Wyo.)—
A. C. McCain, *Supvr.*
Wyoming (hdqrs., Wemmerer, Wyo.)—
C. E. Favre, M. S., *Supvr.*
Milo H. Deming, B. S., *Asst. Supvr.*
Jay B. Hann, *Tech. Asst.*
A. A. Hasel, *Tech. Asst.*
C. H. McDonald, *Jr. Range Exam.*

DISTRICT 5—California District

California and southwestern Nevada (hdqrs., San Francisco, Calif.).
Stuart B. Show, A. B., M. F., *Dist. For.*

Law.
H. P. Dechant, A. B., LL. B., *Asst. to Solicitor.*

Finance and Accounts.
A. W. Smith, *Dist. Fiscal Agt.*
Howard E. Marshall, *Dep. Fiscal, Agt.*

Operation.
Robert L. Deering, A. B., M. F., *Asst. Dist. For.*
Paul P. Pitchlynn, *Dist. For. Insp.* (*personnel, insp., and improvements*).
E. V. Lackey, *Admin. Asst.*
Jay H. Price, B. S., *Dist. For. Insp.*
E. H. Schmieder, *Chief of Maintenance.*
C. E. Jordan, *Dist. For. Insp.*
W. A. Huestis, *Supt. of Road Const.* (*minor roads and trails*).
Frank E. Wooldridge, *Chief Surv.* (*minor roads and trails*).
Don M. Hoffman, *Chief Surv.* (*minor roads and trails*).
Chas. L. Young, *Chief Surv.* (*minor roads and trails*).
W. W. Wooldridge, *Foreman of Road Const.*
F. H. Hafley, *Telephone Engr.*

State Cooperative Fire Protection under Clarke-McNary Law, California.
Jay H. Price, B. S., *Dist. For. Insp.*

Forest Management.
T. D. Woodbury, B. Ph., M. F., *Asst. Dist. For.*
C. E. Dunston, B. F., *Asst.*
J. R. Berry, *Log. Engr.*
B. O. Hughes, B. S., *Assoc. For.* (*logging.*)

Forest Management—Continued.
J. C. Elliott, *Lumberman (timber sales).*
O. M. Evans, *For. Exam. (timber surveys).*

Forest Pathology (in coop. with Bur. of Pl. Ind.).
E. P. Meinecke, Ph. D., *Consult. Path.*
Willis W. Wagener, A. B., *Asst.*

Forest Insect Investigations (Palo Alto, Calif.).
H. E. Burke, Ph. D., *Ent.*
J. M. Miller, *Ent.*

Range Management.
Jesse W. Nelson, *Asst. Dist. For.*
Fred P. Cronemiller, B. S., *Asst.*

Lands.
L. A. Barrett, *Asst. Dist. For.*
George Miller, *Dist. For. Insp.*
W. H. Friedhoff, E. M., *Dist. For. Insp.*

Forest Products.
C. L. Hill, A. B., M. S. F., *For., in charge.*
M. R. Brundage, B. S., *Asst.*

Engineering.
F. E. Bonner, *Dist. Engr.*
E. W. Kramer, C. E., *Hydro-electrical Engr. (water power).*
S. H. Ketcham, E. M., *Assoc. Hydro-electrical Engr. (water power).*
H. A. Sedelmeyer, *Chief Draftsman.*
T. R. Littlefield, *Chief Surv. (maps and surveys).*
B. B. Burnett, *Asst. Engr. (roads).*
J. H. Lawrence, *Surv.-Draftsman (bridges).*

Public Relations.
W. I. Hutchinson, A. B., M. F., *Asst. Dist. For.*
Paul J. Fair, *Admin. Off., in charge of exhibits.*

National Forests.
California:
Angeles (hdqrs., Los Angeles, Calif.)—
George H. Cecil, *Supvr.*
Lewis H. Anderson, *Asst. Supvr.*
California (hdqrs., Willows., Calif.)—
J. D. Coffman, M. F., *Supvr.*
W. F. Derby, A. B., *Asst. Supvr.*
Cleveland (hdqrs., San Diego, Calif.)—
J. E. Elliot, *Supvr.*
Eldorado (hdqrs., Placerville, Calif.)—
E. F. Smith, *Supvr.*
Russell S. Bacon, B. S., M. S. F., *Tech. Asst.*
Inyo (hdqrs., Bishop, Calif.)—
Roy Boothe, *Supvr.*
Klamath (hdqrs., Yreka, Calif.)—
F. D. Douthitt, *Supvr.*
Perry J. Hill, *Asst. Supvr.*
John S. Edwards, B. S., *Jr. For.*
Lassen (hdqrs., Susanville, Calif.)—
W. G. Durbin, *Supvr.*
Geo. M. Gowan, B. S., *Asst. Supvr.*
Marc W. Edmonds, B. S., *Jr. For.*
Russell W. Beeson, B. A., *Asst. Range Exam.*

National Forests—Continued.
California—Continued.
Modoc (hdqrs., Alturas, Calif.)—
George W. Lyons, M. S., *Supvr.*
Robert M. Riley, B. S., *Jr. For.*
Plumas (hdqrs., Quincy, Calif.)—
D. N. Rogers, B. S., M. F., *Supvr.*
John T. Gray, *Asst. Supvr.*
Robert W. Ayres, Ph. B., M. F., *Assoc. For.*
Harry E. Dobbins, B. S., *Jr. For.*
Paul R. Kevin, B. S., *Jr. For.*
San Bernardino (hdqrs., San Bernardino, Calif.)—
S. A. Nash-Boulden, *Supvr.*
Fred J. Jeken, *Asst. Supvr.*
Santa Barbara (hdqrs., Santa Barbara, Calif.)—
Wm. V. Mendenhall, *Supvr.*
Frank A. Robinson, *Asst. Supvr.*
Sequoia (hdqrs., Porterville, Calif.)—
F. P. Cunningham, *Supvr.*
T. C. West, *Asst. Supvr.*
Cyril S. Robinson, *Jr. Range Exam.*
Shasta (hdqrs., Mt. Shasta, Calif.)—
Thos. J. Jones, *Supvr.*
Belknap G. Goldsmith, B. S., M. F., *Log. Engr.*
Earl E. Bachman, B. S., *Jr. For.*
Sierra (hdqrs., Northfork, Calif.)—
M. A. Benedict, B. S., *Supvr.*
Walter E. Jotter, B. S., *Asst. For.*
Orville P. Burnett, B. S., *Jr. For.*
Stanislaus (hdqrs., Sonora, Calif.)—
J. R. Hall, B. S., M. S., *Supvr.*
Claude K. Barker, *Asst. Supvr.*
John S. Everitt, B. S., M. F., *Asst. For.*
Guerdon Ellis, B. S., *Jr. For.*
Tahoe (hdqrs., Nevada City, Calif.)—
R. L. P. Bigelow, *Supvr.*
Leland S. Smith, *Asst. Range Exam.*
Millard M. Barnum, *Jr. For.*
Fred J. Dooley, *Sr. Lumberman.*
Trinity (hdqrs., Weaverville, Calif.)—
Frank Price, *Supvr.*
De Witt Nelson, B. S., *Asst. Supvr.*
Nevada:
Mono (hdqrs., Minden, Nev.)—
Wm. M. Maule, *Supvr.*

DISTRICT 6—North Pacific District

Washington and Oregon (hdqrs., Portland, Oreg.).
C. M. Granger, B. S., *Dist. For.*

Finance and Accounts.
A. H. Cousins, *Dist. Fiscal Agt.*
H. J. Weil, *Dep. Fiscal Agt.*

Operation.
A. O. Waha, *Asst. Dist. For.*
Shirley Buck, *Admin. Off.*
K. P. Cecil, *Insp. (improvements).*
T. P. Flynn, *Asst. Insp.*
C. M. Allen, *Telephone Engr.*
F. H. Brundage, Ph. B., M. F., *Asst. Dist. For. (fire control).*

Operation—Continued.
W. B. Osborne, jr., A. B., M. F., *Insp.* (*fire suppression*).
T. M. Talbott, *Asst. Insp.* (*law enforcement*).

Inspection and Protection of Oregon and California Railroad Lands.
E. H. MacDaniels, A. B., M. F., *Insp.* (*fire coop.*).

State Cooperative Fire Protection under Clarke-McNary Law, Washington and Oregon.
E. H. MacDaniels, A. B., M. F., *Insp.* (*fire coop.*).

Forest Management.
Fred Ames, A. B., M. F., *Asst. Dist. For.*
W. F. Ramsdell, B. S., M. S. F., *Admin. Asst.*
Bruce E. Hoffman, B. S., *Log. Engr.*
Geo. L. Drake, B. S. F., *Lumberman.*
O. F. Ericson, A. B., M. S. F., *Assoc. Log. Engr.*
G. E. Stevenson, *Chief Lumberman* (*check scaling*).
Fred A. Matz, *Chief Lumberman* (*timber surveys*).

Planting and Forest Investigations.
J. F. Kummel, M. A., *For. Exam.* (*planting*).
E. J. Hanzlik, B. S. F., *For. Exam.* (*investigation*).

Forest Pathology (in coop. with Bur. of Pl. Ind.).
John S. Boyce, B. S., M. F., Ph. D., *Consult. Path.*
H. G. Lachmund, A. B., *Asst.*

Forest Insect Control.
A. J. Jaenicke, B. S. F., *For. Exam.*

Range Management.
E. N. Kavanagh, *Asst. Dist. For.*
D. C. Ingram, *Assoc. Range Exam.* (*range inv.*).

Lands.
C. J. Buck, B. A., M. F., *Asst. Dist. For.*
F. W. Cleator, *Asst. Insp.* (*recreation*).
W. M. H. Woodward, A. M., *Mineral Exam.*
Ryle Teed, *Asst. Insp.* (*land exchanges*).
Adolph Nilsson, B. S., *Chief Land Exam.*

Engineering.
Philip H. Dater, A. B., B. S., *Dist. Engr.*
J. Frankland, C. E., *Assoc. Engr.* (*maps and surveys*).
Lage Wernstedt, M. E., M. F., *Chief Surv.* (*maps*).
Victor Flach, *Chief Draftsman.*

Products.
W. H. Gibbons, *For. Exam., in charge.*
Allen H. Hodgson, M. F., *For. Exam.*
H. M. Johnson, B. S., M. S. F., *For. Exam.*

Public Relations.
John D. Guthrie, Ph. B., M. F., *Asst. Dist. For.*

Public Relations—Continued.
Geo. E. Griffith, *Admin. Asst.*
E. M. Stone, *Libr.*

National Forests.
Oregon:
Cascade (hdqrs., Eugene, Oreg.)—
N. F. Macduff, B. S. F., *Supvr.*
R. F. Grefe, B. S. F., *Supt. of Const.*
H. E. Haefner, B. S. A., *Tech. Asst.*
Crater (hdqrs., Medford, Oreg.)—
H. B. Rankin, *Supvr.*
Lee P. Brown, B. S. F., *Jr. For.*
W. J. Sproat, M. F., *Tech. Asst.*
Deschutes (hdqrs., Bend., Oreg.)—
R. L. Fromme, B. S. A., M. F., *Supvr.*
E. J. Schlatter, B. S. F., *Jr. For.*
Leslie Colvill, B. S. F., *Jr. For.*
W. O. Harriman, A. B., *Asst. Supvr.*
W. J. Perry, *Lumberman.*
Fremont (hdqrs., Lakeview, Oreg.)—
Gilbert D. Brown, *Supvr.*
Lawrence Frizzell, *Asst. Supvr.*
R. W. Putnam, B. S., *Jr. For.*
Malheur (hdqrs., John Day, Oreg.)—
Walt L. Dutton, B. S., *Supvr.*
Carl Ewing, *Asst. Supvr.*
R. B. Pierpont, *Supt. of Const.*
Mount Hood (hdqrs., Portland, Oreg.)—
Thomas H. Sherrard, A. B., *Supvr.*
R. T. Carter, *Asst. Supvr.*
H. D. Foster, A. B., M. F., *Tech. Asst.*
Ochoco (hdqrs., Prineville, Oreg.)—
V. V. Harpham, *Supvr.*
W. A. Donnelly, *Asst. Supvr.*
Santiam (hdqrs., Albany, Oreg.)—
C. C. Hall, *Supvr.*
H. G. White, *Asst. Supvr.*
Siskiyou (hdqrs., Grants Pass, Oreg.)—
J. H. Billingslea, B. S. F., *Supvr.*
A. G. Jackson, A. B., M. S. F., *Tech. Asst.*
M. M. Lewis, *Asst. Supvr.*
Siuslaw (hdqrs., Eugene, Oreg.)—
Ralph S. Shelley, B. S., *Supvr.*
A. R. Wilcox, B. S., *Tech. Asst.*
Umatilla (hdqrs., Pendleton, Oreg.)—
J. F. Irwin, *Supvr.*
F. B. Myers, B. S., M. F., *Asst. Supvr.*
J. M. Mann, *Supt. of Const.*
Umpqua (hdqrs., Roseburg, Oreg.)—
Carl B. Neal, A. B., M. F., *Supvr.*
George A. Bonebrake, *Asst. Supvr.*
Donald N. Matthews, B. S. F., M. F., *Jr. For.*
Wallowa (hdqrs., Wallowa, Oreg.)—
Nelson J. Billings, *Supvr.*
D. A. Christianson, *Jr. For.*
Whitman (hdqrs., Baker, Oreg.)—
John C. Kuhns, *Supvr.*
F. W. Furst, B. S., *Asst. Supvr.*
I. E. Jones, *Supt. of Const.*
J. L. Peterson, B. S. H., *Assoc. Range Exam.*
F. D. Monroe, B. S., *Jr. For.*
M. R. Harris, B. S., *Jr. Range Exam.*

National Forests—Continued.
Washington:
Chelan (hdqrs., Okanogan, Wash.)—
P. T. Harris, A. B., M. F., *Supvr.*
G. E. Mitchell, *Asst. Supvr.*
Roy Mitchell, *Supt. of Const.*
Columbia (hdqrs., Portland, Oreg.)—
F. V. Horton, *Supvr.*
R. A. Bottcher, *Supt. of Const.*
H. H. White, *Asst. Supvr.*
G. A. Bright, B. A., M. F., *Tech. Asst.*
Colville (hdqrs., Republic, Wash.)—
P. A. Thompson, *Supvr.*
Lloyd L. Houghland, *Supt. of Const.*
T. H. Burgess, B. S., *Jr. For.*
Mount Baker (hdqrs., Bellingham, Wash.)—
Lawrence B. Pagter, B. A., M. F., *Supvr.*
D. J. Stoner, B. S. F., *Jr. For.*
Olympic (hdqrs., Olympia, Wash.)—
H. L. Plumb, A. B., M. S. F., *Supvr.*
J. R. Bruckart, *Asst. Supvr.*
Robert S. Maclay, B. S., *Jr. For.*
Rainier (hdqrs., Tacoma, Wash.)—
E. J. Fenby, *Supvr.*
J. L. Campbell, *Asst. Supvr.*
E. R. Johnson, *Supt. of Const.*
Lester Moncrief, B. S. F., *Jr. For.*
Snoqualmie (hdqrs., Seattle, Wash.)—
W. G. Weigle, M. F., *Supvr.*
Lewis A. Treen, jr., B. S. F., *Asst. Supvr.*
Ira J. Mason, B. S., M. F., *Jr. For.*
Wenatchee (hdqrs., Wenatchee, Wash.)—
A. H. Sylvester, B. S., *Supvr.*
C. J. Conover, B. S., M. S. F., *Tech. Asst.*
F. G. Renner, B. S. F., *Jr. Range Exam.*

DISTRICT 7—Eastern District

Alabama, Arkansas, Florida, Georgia, Kentucky, Maine, Maryland, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Porto Rico, South Carolina, Tennessee, Virginia, West Virginia, and eastern Oklahoma (hdqrs., Washington, D. C.).
Evan W. Kelley, *Dist. For.*

Finance and Accounts.
Louis King, *Dist. Fiscal Agt.*

Operation.
H. O. Stabler, M. F., *Asst. Dist. For.*

Forest Management.
R. M. Evans, B. A., M. F., *Asst. Dist. For.*

Range Management.
Clinton G. Smith, B. S., M. F., *Asst. Dist. For.*

Lands.
Clinton G. Smith, B. S., M. F., *Asst. Dist. For.*
W. W. Ashe, M. S., *For.; Secy., Nat. For. Reserv. Comm.*
Percy J. Paxton, *Dist. For. Insp.*

Engineering.
J. C. Dort, B. S., *Dist. Engr.*
Rezin E. Pidgeon, *Asst. Dist. Engr.*
Geo. W. Root, *Admin. Asst.*

Public Relations.
James E. Scott, *Asst. Dist. For.*
E. Murray Brunner, M. A., M. S., *Dist. For Insp.*
A. M. Kent, B. F., *For. Fires Prevention Lecturer.*

National Forests.
Alabama:
Alabama (hdqrs., Columbus, Ga.)—
H. Norton Cope, *Supvr.*
E. B. Stone, *Jr. Asst. For.*
Arkansas:
Lee (hdqrs., Washington, D. C.)—
Lawrence S. Gross, *Jr. For.*
Ouachita (hdqrs., Hot Springs Nat. Park, Ark.)—
Chas. A. Plymale, *Supvr.*
R. M. Conarro, *Asst. Supvr.*
H. L. Russell, A. B., M. F., *Asst. For.*
A. J. Streinz, B. S., *Asst. For.*
Philip H. Bryan, *Jr. For.*
Ozark (hdqrs., Russellville, Ark.)—
Henry R. Koen, *Supvr.*
Ben F. Vaughn, *Asst. Supvr.*
James S. Long, *Jr. For.*
Florida:
Florida (hdqrs., Pensacola, Fla.)—
A. C. Shaw, B. S., *Supvr.*
E. W. Gemmer, *Jr. For.*
New Hampshire:
White Mountain (hdqrs., Laconia, N. H.)—
Ira T. Yarnell, B. S., *Supvr.*
C. L. Graham, *Asst. Supvr.*
H. R. Currier, *Asst. Supvr.*
G. S. Wheeler, B. S., M. F., *Jr. For.*
North Carolina:
Nantahala (hdqrs., Franklin, N. C.)—
Robt. W. Shields, B. F., *Supvr.*
John B. Byrne, *Jr. For.*
Pisgah (hdqrs., Asheville, N. C.)—
M. A. Mattoon, *Supvr.*
John W. McNair, *Asst. Supvr.*
Pennsylvania:
Allegheny (hdqrs., Warren, Pa.)—
L. L. Bishop, B. S., *Supvr.*
L. S. Gross, *Asst. For.*
Wm. F. Park, *Jr. For.*
W. I. Stevens, *Jr. For.*
Arthur A. Riemer, *Chief Land Exam.*
Porto Rico:
Luquillo (hdqrs., Rio Piedras, P. R.)—
Wm. P. Kramer, B. F., *Jr. For.*

National Forests—Continued.
Tennessee:
Cherokee (hdqrs., Knoxville, Tenn.)—
R. H. Charlton, *Supvr.*
John Wasilik, jr., M. F., Ph.B., *Asst. Supvr.*
James Denman, *Chief Land Exam.*
Fred C. Henneberger, *Jr. For.*
Lewis R. Smith, *Jr. For.*
Unaka (hdqrs., Bristol, Tenn.)—
Sam R. Broadbent, *Supvr.*
Alfred R. Kinney, *Chief Land Exam.*
C. E. Beaumont, *Asst. For.*
Virginia:
Natural Bridge (hdqrs., Lynchburg, Va.)—
H. M. Sears, *Supvr.*
Harry True, *Chief Land Exam.*
David W. Tabbutt, *Jr. For.*
E. V. Roberts, *Jr. For.*
Shenandoah (hdqrs., Harrisonburg, Va.)—
S. H. Marsh, A. B., M. F., *Supvr.*
A. A. Wood, *Asst. Supvr.*
E. R. Conrad, *Chief Land Exam.*
West Virginia:
Monongahela (hdqrs., Elkins, W. Va.)—
C. L. Perkins, B. S., *Supvr.*

DISTRICT 8—Alaska District

Alaska (hdqrs., Juneau).
Chas. H. Flory, B. S., *Dist. For.*

Finance and Accounts.
H. L. Redlingshafer, *Dist. Fiscal Agt.*

Operation.
M. L. Merritt, M. S., *Asst. Dist. For.*
Harry Sperling, *Chief of Maintenance.*

Forest Management.
B. F. Heintzleman, M. F., *Asst. Dist. For.*
J. P. Williams, *For. Exam.* (*timber surveys*).

Lands.
M. L. Merritt, M. S., *Asst. Dist. For.*
Wellman Holbrook, *For. Exam.*

Engineering.
M. L. Merritt, M. S., *Asst. Dist. For.* (*roads*).
B. F. Heintzleman, M. F., *Asst. Dist. For.* (*water power*).

National Forests.
Alaska:
Chugach (hdqrs., Cordova, Alaska)—
W. J. McDonald, *Supvr.*
J. A. Thayer, B. S., *Jr. For.*
L. C. Pratt, *Exec. Asst.*
Tongass (hdqrs., Ketchikan, Alaska)—
Robert A. Zeller, B. S., *Supvr.*
J. M. Walley, B. S., *For. Exam.*
C. W. Griffin, *Exec. Asst.*
L. W. Blodgett, *Sr. Engr.*
Bernard R. Aikens, *Sr. Engr.*
E. F. Thompson, *Jr. Engr.*

BUREAU OF CHEMISTRY AND SOILS

H. G. Knight, Ph. D., *Chief.*
C. A. Browne, Ph. D., *Assistant Chief.*
A. G. Rice, *Asst. to Chief.*
W. W. Weir, Ph. D., *Assoc. Soil Technol., in charge of Ed. Work.*
C. A. Wolfe, *in charge of Finance and Acct.*
H. A. Donovan, *Chief Clerk and Personnel Off.*
J. W. Stevens, *in charge of Supplies and Equipment.*

CHEMICAL AND TECHNOLOGICAL RESEARCH

C. A. Browne, Ph. D., *Chief.*
W. W. Skinner, Sc. D., *Asst. Chief.*

Carbohydrate Division

H. S. Paine, B. S., *Sr. Chem., in charge.*

Cane Sugar.
R. T. Balch, A. M., *Chem.*
M. A. McCalip, M. S., *Asst. Chem.*

Beet Sugar and Colloids.
L. E. Dawson, B. S., *Assoc. Chem.*
V. Birckner, Ph. D., *Asst. Chem.*
M. S. Badollet, M. S., *Asst. Chem.*
J. C. Keane, A. B., *Asst. Chem.*

Sirups, Sugars, and Honey.
R. T. Balch, A. M., *Chem.*
M. A. McCalip, M. S., *Asst. Chem.*
V. Birckner, Ph. D., *Asst. Chem.*

Starches.
J. A. Ambler, Ph. D., *Assoc. Chem.*

Sugar Plant Constituents.
D. H. Brauns, Ph. D., *Assoc. Chem.*
J. Hamilton, *Sci. Aid.*

Chemical Engineering Division

D. J. Price, B. S., E. M., *Engr. in charge.*

Dust Explosions.
H. R. Brown, B. S., M. E., *Asst. Engr.*
P. W. Edwards, B. S., *Asst. Engr.*
R. W. Harrison, B. S., *Jr. Engr.*
R. M. Baker, *Sr. Draftsman.*

Farm Fires.
H. E. Roethe, B. S., *Assoc. Engr.*

Industrial Relations.
W. A. Noel, B. S., M. E., *Asst. Engr.*

Development.
J. O. Reed, B. S., *Asst. Engr.*

Color and Farm Waste Division

H. T. Herrick, Ch. E., *Chem., in charge.*

Agricultural Waste.
D. F. J. Lynch, A. M., *Assoc. Chem.*
M. J. Goss, A. B., *Asst. Chem.*

Dye Intermediates.
P. H. Groggins, B. S., *Assoc. Chem.*
W. Scholl, Ch. Eng., *Jr. Chem.*

Industrial Wastes.
C. E. Senseman, A. M., *Assoc. Chem.*
H. D. Weihe, *Jr. Chem.*

Biological Stains.
W. C. Holmes, A. B., *Assoc. Chem.*
J. T. Scanlan, B. S., *Asst. Chem.*

Industrial Fermentations.
O. E. May, B. S., *Asst. Chem.*
S. M. Weisberg, B. S., *Jr. Chem.*

Lignin.
M. Phillips, Ph. D., *Chem.*

Crop Chemistry Laboratory

E. T. Wherry, Ph. D., *Sr. Chem., in charge.*
Jehiel Davidson, Ph. D., *Assoc. Chem.*
Ruth G. Capen, A. B., *Jr. Chem.*

Food Research Division

F. C. Blanck, Ph. D., *Sr. Chem., in charge.*

Fruit and Vegetable Chemistry.
California—Los Angeles:
E. M. Chace, LL. M., *Chem., in charge.*
W. B. Davis, Ph. D., *Assoc. Chem.*
C. G. Church, M. S., *Asst. Chem.*
H. D. Poore, B. S., *Asst. Chem.*
D. G. Sorber, A. B., *Jr. Chem.*
District of Columbia—Washington:
E. K. Nelson, B. S., *Chem.*

Food Microscopy.
B. J. Howard, B. S., *Sr. Micros., in charge.*
L. H. James, B. S., *Assoc. Bact.*
V. A. Pease, Ph. D., *Asst. Microan.*
E. Le Fevre, M. D., *Asst. Bact.*
M. B. Church, Ph. D., *Asst. Mycol.*

Metals in Foods.
G. C. Spencer, Ph. D., *Assoc. Chem.*
L. J. Jenkins, *Asst. Sci. Aid.*

Insecticide Division

R. C. Roark, Ph. D., *Assoc. Chem., acting in charge.*
F. B. La Forge, Ph. D., *Assoc. Chem.*
O. A. Nelson, M. S., *Assoc. Chem.*
C. R. Smith, B. S., *Assoc. Chem.*
H. D. Young, B. S., *Asst. Chem.*
J. W. Barnes, M. S., *Asst. Chem.*
W. A. Gersdorff, M. S., *Asst. Chem.*

Oil, Fat, and Wax Laboratory

G. S. Jamieson, Ph. D., *Chem., in charge.*
W. F. Baughman, B. S., *Assoc. Chem.*
R. M. Hann, B. S., *Asst. Chem.*

Protein and Nutrition Division

D. B. Jones, Ph. D., *Sr. Chem., in charge.*
F. A. Csonka, Ph. D., *Assoc. Chem.*
E. M. Nelson, Ph. D., *Assoc. Chem.*
J. G. Wangler, M. S., *Jr. Chem.*
R. Wilson, B. S., *Jr. Chem.*
C. E. F. Gersdorff, *Asst. Sci. Aid.*
J. P. Divine, *Asst. Sci. Aid.*

Technochemical Division

F. P. Veitch, Sc. D., *Sr. Chem., in charge.*

Farm Fabrics.
H. P. Holman, A. B., *Chem.*
T. D' Jarrell, M. S., *Asst. Chem.*

Leather and Tanning Materials.
R. W. Frey, B. S., *Assoc, Chem.*
I. D. Clarke, A. B., *Asst. Chem.*
L. R. Leinbach, B. S., *Jr. Chem.*
W. D. Edington, A. B., *Jr. Chem.*

Naval Stores.
H. P. Holman, A. B., *Chem.*
G. P. Shingler, B. S., *Assoc. Chem.*
W. C. Smith, A. B., *Jr. Chem.*

Paper.
T. D. Jarrell, M. S., *Asst. Chem.*

SOIL INVESTIGATIONS

A. G. McCall, B. S., Ph. D., *Chief.*
Milton Whitney, D. A., *Sci. in Spec. Soil Studies.*

Soil Physics

Physical Soil Characteristics.
L. B. Olmstead, B. S., A. M., *Assoc. Phys.*
H. E. Middleton, M. S., *Asst. Phys.*

Mechanical Soil Analysis.
J. B. Spencer, *Asst. Sci. Aid, in charge.*
V. J. Jacquot, jr., *Under Sci. Helper.*
R. W. Mahorney, *Under Sci. Helper.*

Soil Chemistry

Philip L. Gile, A. B., *Chem., in charge.*

Research in Soil Chemistry.
M. S. Anderson, A. B., M. S., Ph. D., *Assoc. Chem.*
Irving A. Denison, M. S., *Asst. Chem.*
Robert S. Holmes, A. B., *Asst. Chem.*
W. O. Robinson, M. S., *Assoc. Chem.*
J. G. Smith, M. S., *Asst. Chem.*

Soil Mineralogy and Petrography.
W. H. Fry, A. B., *Assoc. Soil Petrographer.*

Soil Analysis.
Glen Edgington, B. S., *Asst. Chem.*
G. J. Hough, B. S., *Asst. Chem.*

Soil Survey

Curtis F. Marbut, Ph. D., LL. D., *Sr. Soil Sci., in charge.*
George W. Baumann, *Exec. Asst.*
Mark Baldwin, B. S., *Insp., Dist. 1.*
W. E. Hearn, B. S., *Insp., Dist. 2.*
T. D. Rice, Ph. B., *Insp., Dist. 3.*
H. H. Bennett, B. S., *Insp., Dist. 4.*
M. H. Lapham, B. S., *Insp., Dist. 5.*
J. E. Lapham, *Assoc. Soil Technol.*
W. J. Geib, *Sci. in Soil Surv.*
C. C. Bassett, *Assoc. Cartographer.*

E. M. Eastword, *Assoc. Cartographer.*
W. T. Carter, jr., B. S., *Assoc. Soil Sci.*
A. T. Strahorn, B. S., *Assoc. Soil Sci.*
A. T. Sweet, B. S., *Assoc. Soil Sci.*
A. C. Anderson, B. S., *Asst. Soil Surv.*
M. W. Beck, B. S., *Asst. Soil Surv.*
E. J. Carpenter, B. S., *Asst. Soil Surv.*
E. B. Deeter, B. S., *Asst. Soil Surv.*
E. D. Fowler, B. S., *Asst. Soil Surv.*
F. A. Hayes, B. S., A. M., *Asst. Soil Surv.*
B. H. Hendrickson, B. S., *Asst. Soil Surv.*
R. C. Jurney, A. B., *Asst. Soil Surv.*
J. A. Kerr, A. B., B. S., *Asst. Soil Surv.*
E. W. Knobel, B. S., *Asst. Soil Surv.*
W. J. Latimer, B. S., *Asst. Soil Surv.*
C. Lounsbury, B. S., *Asst. Soil Surv.*
S. O. Perkins, B. S., *Asst. Soil Surv.*
S. W. Phillips, M. S., *Asst. Soil Surv.*
A. E. Taylor, Ph. B., *Asst. Soil Surv.*
W. E. Tharp, *Asst. Soil Surv.*
W. I. Watkins, B. S., *Asst. Soil Surv.*
R. Wildermuth, B. S., *Asst. Soil Surv.*
L. A. Wolfanger, B. S., *Asst. Soil Surv.*
E. H. Bailey, M. S., *Jr. Soil Surv.*
R. E. Devereux, A. B., *Jr. Soil Surv.*
M. J. Edwards, *Jr. Soil Surv.*
T. W. Glassey, *Jr. Soil Surv.*
A. W. Goke, B. S., *Jr. Soil Surv.*
A. L. Gray, B. S., *Jr. Soil Surv.*
W. G. Harper, B. S., *Jr. Soil Surv.*
M. H. Layton, B. S., *Jr. Soil Surv.*
W. D. Lee, B. S., *Jr. Soil Surv.*
F. R. Lesh, *Jr. Soil Surv.*
A. H. Hasty, *Jr. Soil Surv.*
J. W. Moon, B. S., *Jr. Soil Surv.*
W. J. Moran, B. S., *Jr. Soil Surv.*
C. S. Simmons, *Jr. Soil Surv.*
H. M. Smith, B. S., *Jr. Soil Surv.*
James Thorp, B. S., *Jr. Soil Surv.*
B. H. Williams, B. S., *Jr. Soil Surv.*
F. O. Youngs, B. S., *Jr. Soil Survey.*
C. B. Boatright, B. S., *Asst. Sci. Aid.*
W. C. Boatright, B. S., *Asst. Sci. Aid.*
E. G. Fitzpatrick, *Asst. Sci. Aid.*
Z. C. Foster, B. S., *Asst. Sci. Aid.*
E. N. Poulson, *Asst. Sci. Aid.*
Ray C. Roberts, B. S., *Asst. Sci. Aid.*
G. A. Swenson, *Asst. Sci. Aid.*
J. H. Zentmire, *Asst. Sci. Aid.*

Soil Microbiology

Charles Thom, Ph. D., *Sr. Mycol., in charge.*

Soil Bacteriology Investigations.

Nathan R. Smith, B. S., *Assoc. Bact.*
Klare S. Markley, M. S., *Asst. Biochem.*
Daniel Ready, *Sci. Aid.*

Peat Investigations.

Alfred P. Dachnowski Stokes, A. M., Ph. D., *Assoc. Physiol.*

Legume Bacteria.

Lewis T. Leonard, B. S., M. A., *Assoc. Physiol.*
Franklin W. Marsh, B. S., *Jr. Bact.*
Samuel H. Newcomer, *Sci. Helper.*

Soil Fertility

Oswald Schreiner, M. S., Ph. D., *Sr. Biochem., in charge.*

Soil and Fertilizer Investigations.

Bailey E. Brown, M. S., *Biochem.*
Joshua J. Skinner, M. S., Ph. D., *Biochem.*
Lewis A. Hurst, B. S., *Assoc. Biochem.*

Biochemical Investigations of Soils.

Edmund C. Shorey, A. M., D. Sc., *Biochem.*
Paul R. Dawson, M. A., *Asst. Biochem.*

Biochemical Investigations of Fertilizers.

Ralph B. Deemer, B. S., *Asst. Biochem.*
Wilbur R. Leighty, M. S., *Asst. Biochem.*

Biochemical Investigations of Crop Plants.

Frank M. Schertz, M. A., Ph D., *Assoc. Biochem.*

Soil-Reaction Studies.

Edward F. Snyder, B. S., *Asst. Biochem.*

Greenhouse Work.

Fred R. Reid, *Asst. Biochem.*

FERTILIZER AND FIXED NITROGEN INVESTIGATIONS

F. G. Cottrell, B. S., Ph. D., *Chief.*
O. L. Helsley, *Exec. Asst.*

Mechanism of Catalysis.

P. H. Emmett, Ph. D., *Assoc. Chem.*
J. Y. Yee, M. S., *Asst. Chem.*
E. H. Johnston, *Jr. Chem.*

Hydrogen Production and Purification.

E. C. White, Ph. D., *Assoc. Chem.*
W. E. Kuentzel, M. S., *Asst. Chem. Engr.*
J. F. Shultz, B. S., *Jr. Chem.*
C. A. Black, M. S., *Jr. Chem. Engr.*

Transformation of Nitrogen Compounds.

R. O. E. Davis, Ph. D., *Chem.*
H. J. Krase, M. S., *Assoc. Chem. Engr.*
V. N. Morris, Ph. D., *Asst. Chem.*
V. L. Gaddy, *Jr. Chem.*
H. C. Hetherington, A. M., *Assoc. Chem.*
K. G. Clark, B. S., *Asst. Chem. Engr.*
Mildred S. Sherman,* M. S., *Jr. Chem.*
Katharine S. Love, A. B., *Jr. Chem.*
Joseph Reuter, *Instrument Maker.*

Engineering Research and Development.

F. A. Ernst, C. E., *Sr. Chem. Engr.*
J. G. Thompson, Ph. D., *Assoc. Chem.*
W. L. Edwards, C. E., *Assoc. Engr.*
J. R. Dilley, M. E., *Assoc. Mech. Engr.*
Constance Sherry,* *Draftsman.*
C. M. Sullivan, B. S., *Asst. Chem. Engr.*
H. Bryan, *Assoc. Mech. Engr.*
J. F. Mullins, *Prin. Mech.*

Physical Investigations.

E. P. Bartlett, Ph. D., *Assoc. Chem.*
H. L. Cupples, Ph. D., *Asst. Chem.*
T. H. Tremearne, *Asst. Sci. Aid.*
A. N. Illinski, B. S., *Asst. Chem.*
C. H. Kunsman, Ph. D., *Phys.*
R. A. Nelson, *Sci. Aid.*

Physical Investigations—Continued.
E. S. Lamar, *Jr. Phys.*
L. Testa, *Glassblower.*

Biochemical and Organic Nitrogen Investigations.
F. E. Allison, Ph. D., *Chem.*
C. D. Garby, Ph. D., *Asst. Chem.*
L. A. Pinck, M. S., *Asst. Chem.*
Mary K. Murray,* B. S., *Jr. Chem.*

Phosphates and Potash Investigations.
J. W. Turrentine, M. S., Ph. D., *Chem.*
P. H. Royster, M. A., *Assoc. Chem. Engr.*
K. D. Jacob, B. S., *Assoc. Chem.*
E. J. Fox, A. B., *Asst. Chem.*
D. S. Reynolds, B. S., *Jr. Chem.*

Concentrated Fertilizer.
W. H. Ross, M. S., Ph. D., *Chem.*
A. R. Merz, M. S., Ph. D., *Assoc. Chem.*
C. W. Whittaker, A. B., M. S., *Asst. Chem.*
A. L. Mehring, A. B., *Asst. Chem.*
J. R. Adams, B. S., *Asst. Chem.*
H. E. Patten, Ph. D., *Asst. Chem.*

Organic Fertilizers and Soil Amendments.
C. C. Fletcher, M. D., *Assoc. Chem.*
G. P. Walton, M. S., *Assoc. Chem.*
J. B. Martin, A. B., M. S., *Asst. Chem.*
Robert F. Gardiner, M. S., *Asst. Chem.*
F. O. Lundstrom, A. B., *Asst. Chem.*

BUREAU OF ENTOMOLOGY

L. O. Howard, M. S., Ph. D., M. D., LL. D., Sc. D., *Chief.*
C. L. Marlatt, M. S., Sc. D., *Assoc. Chief. in charge of regulatory work.*
A. L. Quaintance, M. S., D. Sc., *Assoc. Chief, in charge of research.*

BUSINESS ADMINISTRATION, INFORMATION, AND LIBRARY

S. A. Rohwer, *Sr. Ent., in charge.*
E. B. O'Leary, *Admin. Off.*

Business Administration.
A. J. Leister, *Fiscal Off.*
J. E. Andrews, *Aud.*
H. T. Sinclair, *Acct.*
S. B. Walker, *Purchasing Off.*
M. I. Ely, *Personnel Clerk.*
B. J. Boiseau, *Admin. Clerk.*

Information and Editorial Work.
Rolla P. Currie, B. A., *Assoc. Ent., in charge.*
J. P. Schumacher, A. B., *Asst. Ed.*
A. L. Colton, Ph. B., A. M., *Jr. Ed.*
W. E. McBath, M. A., *Jr. Ed.*
J. C. Pratt, *Photographer.*
W. N. Dovener, *Chief Sci. Illustr.*

Library.
Mabel Colcord, A. B., B. L. S., *Assoc. Libr., in charge.*
Ina L. Hawes, B. S., *Jr. Libr.*
Angelina Carabelli, *Libr. Asst.*

DECIDUOUS-FRUIT INSECTS

A. L. Quaintance, M. S., D. Sc., *Assoc. Chief of Bureau, in charge.*
Eva Baldwin Fitzgerald,* B. A., *Sci. Illustr.*
Abby Holdridge, *Jr. Sci. Aid.*

Orchard Insecticides.
C. H. Richardson, M. S., Ph. D., *Ent.*
Carlo Zeimet, *Asst. Bibl. Ent.*
F. L. Campbell, M. S., D. Sc., *Assoc. Ent.*

Orchard Insecticides—Continued.
H. H. Shepard, M. S., *Asst. Ent.*
R. S. Filmer, B. S., *Jr. Ent.*

FIELD LABORATORY:
Maryland—Sligo (post office, Silver Spring)
N. E. McIndoo, A. M., Ph. D., *Ent.*

Apple Insects.
P. W. Mason, M. S., Ph. D., *Assoc. Ent.* (*aphid studies*).

FIELD LABORATORIES:
Arkansas—Bentonville—
A. J. Ackerman, B. S., *Assoc. Ent., in charge.*
H. H. Schwardt, B. S., *Jr. Ent.*
Indiana—Vincennes—
B. A. Porter, B. S., Ph. D., *Assoc. Ent., in charge.*
R. F. Sazama, B. S., *Jr. Ent.*
Kansas—Wichita—
Paul M. Gilmer, A. B., Ph. D., *Assoc. Ent., in charge.*
Howard Baker, B. S., *Jr. Ent.*
Maryland—Sligo (post office, Silver Springs)—
E. H. Siegler, B. S., *Assoc. Ent.*
Luther Brown, B. S., *Asst. Ent.*
New Jersey—Riverton—
L. C. McAlister, jr., B. S., *Jr. Ent.*
Washington—Yakima—
E. J. Newcomer, A. B., *Assoc. Ent., in charge.*
M. A. Yothers, M. S., *Assoc. Ent.*

Grape Insects.
FIELD LABORATORY:
Ohio—Sandusky—
G. A. Runner, *Assoc. Ent., in charge.*

Nut Insects.

FIELD LABORATORIES:

Georgia—Thomasville—

G. F. Moznette, B. S., *Assoc. Ent., in charge.*

C. H. Martin, A. B., *Asst. Ent.*

Texas—Brownwood (branch of Thomasville, Ga., lab.)—

H. S. Adair, B. S., *Jr. Ent.*

C. C. Pinkney, B. S., *Jr. Ent.*

West Virginia—French Creek—

F. E. Brooks, *Assoc. Ent., in charge.*

Peach Insects.

FIELD LABORATORIES:

Georgia—Fort Valley—

O. I. Snapp, B. S., *Assoc. Ent., in charge.*

H. S. Swingle, M. S., *Asst. Ent.*

New Jersey—Riverton—

Alvah Peterson, B. S., M. A., Ph. D., *Ent., in charge of peach moth inv.*

G. J. Haeussler, B. S., *Jr. Ent.*

J. W. Lipp, M. S., *Asst. Ent.*

Orchard Insect Survey.

FIELD LABORATORY:

Maryland—Sligo (post office), Silver Spring)—

R. E. Snodgrass, A. B., *Assoc. Ent., in charge of insect morphology.*

Blueberry Maggot.

FIELD LABORATORY:

Maine—Cherryfield—

F. H. Lathrop, B. S., Ph. D., *Ent., in charge.*

C. B. Nickels, B. S., M. S., *Asst. Ent.*

CEREAL AND FORAGE INSECTS

W. H. Larrimer, M. S., Ph. D., *Sr. Ent., in charge.*

W. R. Walton, *Ent.*

J. S. Wade, *Assoc. Ent.*

Esther H. Hart, A. B., *Prin. Sci. Illustr.*

Nettie S. Klopfer*, *Under Sci. Helper.*

General Cereal and Forage Insects.

FIELD LABORATORIES:

Arizona—Tempe (clover and alfalfa seed chalcis, corn earworm, alfalfa caterpillar, grasshoppers, and plant-lice)—

V. L. Wildermuth, B. S., *Assoc. Ent., in charge.*

E. E. Russell, *Asst. Ent.*

R. A. Blanchard, A. B., *Asst. Ent.*

E. G. Davis, B. S., *Jr. Ent.*

Francis M. Jones, *Under Sci. Helper.*

California—Sacramento (grasshoppers, Hessian fly, wireworms, and range craneflies)—

W. B. Cartwright, B. S., *Assoc. Ent., in charge.*

C. C. Wilson, B. S., *Jr. Ent.*

General Cereal and Forage Insects—Contd.

FIELD LABORATORIES—Continued.

Indiana—West Lafayette (Hessian fly, sod webworms, lesser clover leaf weevil, grasshoppers, and chinch bug)—

C. M. Packard, M. S., *Ent., in charge.*

H. R. Painter, M. S., *Asst. Ent.*

W. B. Noble, B. S., *Asst. Ent.*

Curtis Benton, M. S., *Jr. Ent.*

Iowa—Sioux City (pale western cutworm, chinch bug, Hessian fly, and wheat stem sawfly)—

C. N. Ainslie, M. A., *Asst. Ent., in charge.*

Kansas—Wichita (Hessian fly, chinch bug, green bug, white grubs, and false wireworms)—

J. R. Horton, B. S., *Assoc. Ent., in charge.*

E. T. Jones, A. M., *Asst. Ent.*

J. S. Pinckney, B. S., *Jr. Ent.*

H. H. Walkden, B. S., *Jr. Ent.*

Missouri—Webster Groves (Hessian fly, billbugs, wheat jointworm, strawworms, and chinch bug)—

A. F. Satterthwait, *Assoc. Ent., in charge.*

R. C. Lange, *Asst. Sci. Aid.*

Montana—Billings (grasshoppers and crickets)—

Stewart Lockwood, A. B., *Assoc. Ent., in charge.*

R. L. Shotwell, A. B., *Asst. Ent.*

F. T. Cowen, B. S., *Jr. Ent.*

Oregon—Forest Grove (clover root borer, wireworms, Hessian fly, wheat midge, plant-lice, and grasshoppers)—

L. P. Rockwood, B. S., *Assoc. Ent., in charge.*

T. R. Chamberlin, B. S., *Asst. Ent.*

M. M. Reeher, A. B., *Asst. Ent.*

Sadie E. Keen, A. B., *Jr. Ent.*

Pennsylvania—Carlisle (Hessian fly and its parasites)—

C. C. Hill, B. S., *Asst. Ent., in charge.*

H. D. Smith, B. S., *Jr. Ent.*

Texas—San Antonio (sorghum midge, grasshoppers, green bug, and southwestern corn borer)—

E. V. Walter, B. S., *Assoc. Ent., in charge.*

F. W. Boyd, B. S., *Asst. Ent.*

Utah—Salt Lake City (alfalfa weevil and its parasites)—

G. I. Reeves, A. B., *Ent., in charge.*

I. M. Hawley, Ph. D., *Ent.*

S. J. Snow, A. B., *Asst. Ent.*

General Cereal and Forage Insects—Contd.

FIELD LABORATORIES—Continued.

Virginia—

Charlottesville (wheat jointworm, corn earworm, and larger corn stalk borer)—

W. J. Phillips, Ph. D., *Ent., in charge.*

L. C. Woodruff, A. B., *Jr. Ent.*

John C. Shiver, B. S., *Jr. Ent.*

Richmond (branch of Charlottesville, Va., lab.)—

G. W. Barber, M. S., D. Sc., *Asst. Ent.*

Sugar Cane and Rice Insects.

FIELD LABORATORIES:

Louisiana—

Crowley (under direction of Assoc. Ent. in charge of New Orleans, La., lab.)—

J. W. Ingram, B. S., *Asst. Ent. (rice insects).*

New Orleans—

T. E. Holloway, B. S., *Assoc. Ent., in charge.*

W. E. Haley, *Prin. Sci. Aid.*

European Corn Borer.

FIELD LABORATORIES:

France—Hyères, Var (parasites of corn borer)—

W. R. Thompson, M. S., D. Sc., *Ent., in charge.*

H. L. Parker, B. S., D. Sc., *Assoc. Ent.*

A. M. Vance, B. S., *Asst. Ent.*

Connecticut—Stratford—

R. A. Vickery, A. M., *Asst. Ent., in charge.*

Massachusetts—Arlington—

D. J. Caffrey, B. S., *Ent., in charge of research.*

D. W. Jones, B. S., *Assoc. Ent.*

C. H. Batchelder, M. S., Ph. D., *Assoc. Ent.*

W. A. Baker, B. S., *Asst. Ent.*

B. E. Hodgson, B. S., *Asst. Ent.*

W. G. Bradley, B. S., *Asst. Ent.*

R. A. Biron, B. S., *Jr. Ent.*

C. A. Clark, B. S., *Jr. Ent.*

R. C. Ellis, *Jr. Ent.*

J. C. Silver, B. S., *Jr. Ent.*

F. S. Vidler, *Sr. Mech.*

Michigan—Monroe—

Philip Luginbill, A. M., Ph. D., *Assoc. Ent., in charge.*

F. L. Simonton, A. M., *Assoc. Ent.*

New York—Silver Creek—

H. N. Bartley, B. S., *Asst. Ent., in charge.*

L. B. Scott, B. S., *Jr. Ent.*

Ohio—Sandusky—

L. H. Patch, B. S., *Asst. Ent.*

European Corn Borer—Continued.

FIELD OFFICES:

Massachusetts—Boston (branch of Toledo, Ohio, office)—

R. S. Clifton, *Admin. Asst., in charge.*

C. W. Lewis, B. S., *Prin. Sci. Aid.*

Ohio—

Cleveland (branch of Toledo, Ohio, office)—

E. G. Brewer, *Admin. Off., in charge.*

G. P. Babson, *Sr. Sci. Aid.*

Toledo:

L. H. Worthley, *Admin. in Corn Borer Control.*

C. H. Hadley, B. S., *Sr. Admin. in Insect Control.*

John H. Harman, B. S., *Asst. Ent.*

C. O. Larrabee, *Prin. Sci. Aid.*

J. W. Enwright, *Sr. Sci. Aid.*

F. L. Fall, *Sr. Sci. Aid.*

COTTON INSECTS

(Hdqrs., Tallulah, La.)

B. R. Coad, *Ent., in charge.*

FIELD LABORATORIES:

Arizona—Tucson—

T. P. Cassidy, B. S., *Assoc. Ent., in charge.*

A. J. Chapman, B. S., *Jr. Ent.*

H. C. Young, B. S., *Jr. Ent.*

W. A. Stevenson, B. S., *Jr. Ent.*

William Hackett, *For. Ranger.*

V. V. Williams, B. S., *Jr. Ent.*

Louisiana—Tallulah (hdqrs.)—

B. R. Coad, *Ent., in charge.*

J. W. Folsom, Sc. B., Sc. D., *Assoc. Ent.*

F. H. Tucker, *Assoc. Chem.*

G. A. Maloney, *Asst. Ent.*

W. S. Cook, M. A., *Asst. Sci. (pl. morphology).*

F. F. Bondy, B. S., *Asst. Ent.*

M. T. Young, B. S., *Asst. Ent.*

R. C. Gaines, B. S., *Asst. Ent.*

R. W. Moreland, B. S., *Asst. Ent.*

K. P. Ewing, B. S., *Asst. Ent.*

G. L. Smith, B. S., *Jr. Ent.*

P. A. Glick, A. B., M. S., *Jr. Pl. Quar. Insp.*

G. L. Garrison, *Sr. Sci. Aid.*

Maryland—Sligo (post office, Silver Spring)—

J. L. Webb, M. S., *Assoc. Ent.*

South Carolina—Florence—

E. W. Dunnam, B. S., *Asst. Ent.*

Texas—

Brownsville—

T. C. Barber, B. S., *Asst. Ent., in charge.*

El Paso—

F. A. Fenton, M. A., Ph. D., *Ent.*

FOREST INSECTS

F. C. Craighead, B. A., M. S., Ph. D., *Sr. Ent., in charge.*

Western Bark Beetles.

FIELD LABORATORIES:
California—
Northfork (branch of Palo Alto, Calif., lab.)—
J. M. Miller, B. S., *Ent., in charge.*
Palo Alto—
J. M. Miller, B. S., *Ent., in charge.*
H. E. Burke, M. S., Ph. D., *Ent.*
F. P. Keen, B. S., *Assoc. Ent.*
H. L. Person, M. S., *Asst. Ent.*
Albert Wagner, *Sr. Sci. Aid.*
George Hofer, *Sr. Sci. Aid.*
W. J. Buckhorn, *Sr. Sci. Aid.*
Idaho—Coeur d'Alene—
J. C. Evenden, B. S., *Assoc. Ent., in charge.*
A. L. Gibson, B. S., *Asst. Ent.*
H. J. Rust, *Sr. Sci. Aid.*
Oregon—Ashland (branch of Palo Alto, Calif., lab.)—
J. E. Patterson, *Asst. Ent.*

Forest-Tree Insects.

FIELD LABORATORIES:
Massachusetts—Amherst—
H. J. MacAloney, M. F., B. S., *Asst. Ent., in charge.*
Minnesota—St. Paul—
S. A. Graham, B. S., M. F., Ph. D., *Agt., in charge.*
L. G. Baumhofer, B. S., *Jr. Ent.*
North Carolina—Asheville—
J. A. Beal, B. S., *Asst. Ent., in charge.*
Virginia—East Falls Church—
R. A. St. George, M. S., *Assoc. Ent., in charge.*

Forest-Product Insects.

T. E. Snyder, B. A., M. F., Ph. D., *Ent.*

Shade-Tree Insects.

William Middleton, B. A., *Assoc. Ent.*

TRUCK-CROP INSECTS

J. E. Graf, A. B., *Sr. Ent., in charge.*
W. H. White, B. S., *Assoc. Ent.*
Mary C. Foley, *Asst. Sci. Illustr.*

Taxonomy of Truck-Crop Insects.

F. H. Chittenden, Sc. D., *Ent.*
Doris H. Blake*, A. M., *Jr. Ent.*

Miscellaneous Truck-Crop Insects.

FIELD LABORATORIES:
Louisiana—Baton Rouge—
C. E. Smith, M. S., *Assoc. Ent., in charge.*
Norman Allen, M. S., *Jr. Ent.*
Mississippi—Gulfport—
M. M. High, B. S., *Assoc. Ent., in charge.*

Miscellaneous Truck-Crop Insects—Continued.

FIELD LABORATORIES—Continued.
North Carolina—Chadbourn—
W. A. Thomas, B. S., *Asst. Ent., in charge.*
W. J. Reid, jr., B. S., *Jr. Ent.*
Pennsylvania—Philadelphia—
D. E. Fink, M. S., Ph. D., *Assoc. Ent., in charge.*

Sugar-Beet Insects.

FIELD LABORATORIES:
Idaho—Twin Falls—
Walter Carter, M. S., *Assoc. Ent., in charge.*
H. E. Wallace, M. S., *Jr. Ent.*
Oregon—Corvallis (branch of Twin Falls, Idaho, lab.)—
C. H. Griffith, B. S., *Jr. Ent.*
Utah—Richfield (branch of Twin Falls, Idaho, lab.)—
E. W. Davis, M. S., *Asst. Ent.*

Soil Insects.

FIELD LABORATORIES:
California—Alhambra—
R. E. Campbell, M. S., *Assoc. Ent., in charge.*
J. C. Elmore, B. S., *Jr. Ent.*
A. C. Davis, B. S., *Agt.*
Washington—
Toppenish—
M. C. Lane, B. S., *Asst. Ent., in charge.*
F. H. Shirck, M. S., *Jr. Ent.*
Walla Walla (branch of Toppenish lab.)—
K. E. Gibson, B. S., *Jr. Ent.*

Sweet-Potato Weevil Control.

FIELD OFFICES:
Alabama—Grand Bay (branch of Biloxi, Miss., office)—
S. C. Brummitt, *Sr. Sci. Aid.*
Florida—
Sanford (branch of Tampa, Fla., office)—
W. E. Stone, B. S., *Asst. Ent.*
Tampa—
B. L. Boyden, B. A., *Assoc. Ent., in charge.*
C. O. Bare, M. A., *Asst. Ent.*
J. W. McGlamery, B. S., *Jr. Ent.*
Mississippi—
Bay St. Louis (branch of Biloxi office)—
F. A. Wright, B. A., *Jr. Ent.*
Biloxi—
K. L. Cockerham, M. S., *Assoc. Ent., in charge.*
Troy Thompson, B. S., *Jr. Ent.*
Picayune (branch of Biloxi office)—
O. T. Deen, B. S., *Jr. Ent.*
P. K. Harrison, B. S., *Jr. Ent.*

Pea Insects.

FIELD LABORATORY:

Wisconsin—Madison—

J. E. Dudley, jr., B. S., *Assoc. Ent., in charge.*

E. M. Searls, B. S., *Asst. Ent.*

Alfred Weed, M. S., *Agt.*

Berry Insects.

FIELD LABORATORY:

Maryland—Sligo (post office, Silver Spring)—

C. H. Popenoe, B. S., *Assoc. Ent., in charge.*

Tobacco Insects.

FIELD LABORATORIES:

Florida—Quincy (branch of Clarksville, Tenn., lab.)—

F. S. Chamberlin, B. S., *Asst. Ent.*

North Carolina—Chadbourn (branch of Clarksville, Tenn., lab.):

J. N. Tenhet, *Jr. Ent.*

Tennessee—Clarksville—

A. C. Morgan, B. S., *Assoc. Ent., in charge.*

S. E. Crumb, A. B., *Assoc. Ent.*

K. B. McKinney, B. S., *Asst. Ent.*

J. U. Gilmore, B. S., *Asst. Ent.*

Mexican Bean Beetle.

FIELD LABORATORIES:

Alabama—Birmingham (branch of Columbus, Ohio, lab.)—

L. W. Brannon, B. S., *Asst. Ent.*

New Mexico—Estancia—

J. R. Douglass, M. S., *Asst. Ent., in charge.*

New York—Geneva (branch of Columbus, Ohio, lab.)—

Rodney Cecil, M. S., *Asst. Ent.*

Ohio—Columbus—

N. F. Howard, M. S., *Assoc. Ent., in charge.*

BEE CULTURE

J. I. Hambleton, B. S., *Apicult., in charge.*

Behavior of Bees.

W. J. Nolan, A. M., *Assoc. Apicult.*

Bee Diseases.

C. E. Burnside, M. S., *Asst. Apicult.*

Beekeeping Regions.

E. L. Sechrist, B. A., *Assoc. Apicult.*

Physiology of Bees.

J. W. Bulger, M. A., Ph. D., *Asst. Apicult.*

Intermountain Bee Culture.

FIELD LABORATORY:

Wyoming—Laramie—

A. P. Sturtevant, A. B., Ph. D., *Assoc. Apicult., in charge.*

J. E. Eckert, M. S., *Assoc. Apicult.*

STORED-PRODUCT INSECTS

(Including household insects)

E. A. Back, B. S., Ph. D., *Sr. Ent., in charge.*

R. T. Cotton, M. S., Ph. D., *Ent.*

H. B. Bradford, *Chief Sci. Illustr.*

Marion T. Van Horn, *Jr. Sci. Aid.*

Grain Insects.

FIELD LABORATORIES:

Georgia—Thomasville—

S. E. McClendon, B. S., *Asst. Ent., in charge.*

Maryland—Sligo (post office, Silver Spring)—

G. W. Ellington, B. S., *Asst. Ent.*

Bean Weevils.

FIELD LABORATORY:

California—Alhambra—

A. O. Larson, M. S., *Assoc. Ent., in charge.*

C. K. Fisher, B. S., *Asst. Ent.*

Dried-Fruit Insects.

FIELD LABORATORY:

California—Fresno—

Perez Simmons, B. S., *Assoc. Ent., in charge.*

J. C. Hamlin, M. S., *Assoc. Ent.*

W. D. Reed, B. S., *Asst. Ent.*

TROPICAL AND SUBTROPICAL PLANT INSECTS

A. C. Baker, B. S. A., Ph. D., *Sr. Ent., in charge.*

Eva B. Fitzgerald*, B. A., *Sci. Illustr.*

Abby Holdridge, *Jr. Sci. Aid.*

Camphor Scale.

FIELD LABORATORY:

Louisiana—New Orleans—

A. W. Cressman, B. S., *Asst. Ent., in charge.*

C. I. Bliss, M. S., Ph. D., *Assoc. Ent.*

Greenhouse and Bulb Insects.

C. A. Weigel, M. S., Ph. D., *Ent., in charge.*

Bessie M. Broadbent, B. S., *Jr. Ent.*

FIELD LABORATORIES:

California—Santa Cruz—

F. R. Cole, A. M., Ph. D., *Assoc. Ent., in charge.*

Washington—Puyallup—

C. F. Doucette, B. S., *Asst. Ent., in charge.*

Citrus Insects in Gulf Region.

FIELD LABORATORY:

Florida—Orlando—

W. W. Yothers, B. S., A. B., *Assoc. Ent., in charge.*

O. C. McBride, B. S., M. A., *Asst. Ent.*

Fruit Flies.
FIELD LABORATORIES:
Canal Zone—Ancon—
James Zetek, A. B., *Assoc. Ent.*
Ignacio Molino, LL. D., *Sci. Aid.*
Hawaii—Honolulu—
H. F. Willard, B. S., *Ent., in charge.*
A. C. Mason, M. S., *Assoc. Ent.*

Citrus Thrips.
FIELD LABORATORY:
California—Lindsay—
E. A. McGregor, A. M., *Assoc. Ent., in charge.*

TAXONOMY

S. A. Rohwer, *Sr. Ent., in charge.*
Eleanor T. Armstrong, *Sr. Sci. Illustr.*
Margaret C. Mansuy*, A. B., *Sr. Sci. Aid.*
Francis H. Noyes, *Asst. Sci. Illustr.*
C. S. Menagh, *Sci. Aid.*
Edna E. Sellens, *Jr. Sci. Aid.*
Mildred B. Everhart, *Under Sci. Helper.*
Nettie E. Crocker*, *Under Sci. Helper.*
Eunice Myers, *Under Sci. Helper.*
Catherine V. Locke*, *Under Sci. Helper.*
Nellie D. McConnell*, *Under Sci. Helper.*
Louie H. Richardson*, *Under Sci. Helper.*
Janet W. Armstrong, *Under Sci. Helper.*
Margery L. Gray, *Under Sci. Helper.*

Coleoptera.
A. G. Böving, B. Ph., M. S., Ph. D., *Ent.*
E. A. Chapin, Ph. B., M. S., Ph. D., *Assoc. Ent.*
H. S. Barber, *Assoc. Ent.*
W. S. Fisher, *Asst. Ent.*

Lepidoptera.
Wm. Schaus, M. A., D. Sc., *Assoc. Ent.*
Carl Heinrich, *Assoc. Ent.*
August Busck, *Assoc. Ent.*

Hymenoptera.
A. B. Gahan, M. S., *Ent.*
R. A. Cushman, *Assoc. Ent.*
Grace A. Sandhouse, A. M., *Jr. Ent.*

Diptera.
C. T. Greene, *Asst. Ent.*

Orthoptera and Neuroptera.
A. N. Caudell, M. S., *Assoc. Ent.*

Ectoparasites and Mites.
H. E. Ewing, M. A., Ph. D., *Assoc. Ent.*

Coccidae.
Harold Morrison, A. M., Ph. D., *Ent.*
Grace E. Glance, B. S., *Jr. Ent.*

INSECTS AFFECTING MAN AND ANIMALS

F. C. Bishopp, B. S., *Sr. Ent., in charge.*

Insects Affecting Animals.
FIELD LABORATORIES:
Texas—
Dallas—
E. W. Laake, B. S., *Assoc. Ent.*
W. E. Dove, B. S., *Asst. Ent.*

Insects Affecting Animals—Continued.
FIELD LABORATORIES—Continued.
Texas—Continued.
Sonora (branch of Dallas lab.)—
O. G. Babcock, B. S., *Asst. Ent.*
Uvalde (branch of Dallas lab.)—
D. C. Parman, B. S., *Asst. Ent.*

Malaria Mosquitoes.
FIELD LABORATORY:
Louisiana—Mound—
W. V. King, B. S., Ph. D., *Ent., in charge.*
G. H. Bradley, B. S., *Asst. Ent.*
T. E. McNeel, B. S., *Jr. Ent.*

GIPSY MOTH AND BROWN-TAIL MOTH

(Hdqrs., Melrose Highlands, Mass.)

A. F. Burgess, M. S., *Sr. Ent., in charge of moth work.*
S. S. Crossman, B. S., *Ent.*
H. B. Dalton, *Admin. Asst.*

Field and Laboratory Research.
Massachusetts—Melrose Highlands (hdqrs.)—
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T. H. Jones, B. S., *Ent.*
J. N. Summers, B. S., Ph. D., *Assoc. Ent.*
C. F. W. Muesebeck, B. S., *Ent.*
R. T. Webber, *Assoc. Ent.*
S. M. Dohanian, M. S., *Assoc. Ent.*
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P. B. Dowden, B. S., *Asst. Ent.*
W. F. Sellers, B. S., *Asst. Ent.*
S. F. Potts, M. S., *Asst. Ent.*
R. C. Brown, B. S., *Jr. Ent.*
D. L. Parker, B. S., *Jr. Ent.*
H. H. Richardson, B. S., *Jr. Ent.*
A. B. Proper, M. S., *Jr. Ent.*
J. V. Schaffner, jr., *Prin. Sci. Aid.*
R. Wooldridge, *Prin. Sci. Aid.*
I. T. Guild, *Sr. Sci. Aid.*
H. I. Winchester, *Sr. Sci. Aid.*
J. E. R. Holbrook, *Sr. Sci. Aid.*
J. A. Millar, *Sr. Sci. Aid.*
C. L. Griswold, *Asst. Sci. Aid.*

Scouting and Extermination.
Massachusetts—Melrose Highlands (hdqrs.)—
H. L. Blaisdell, *Sr. Admin. Off.*
L. E. Gibson, B. S., *Admin. Asst.*
W. W. Bancroft, *Prin. Sci. Aid.*
H. N. Bean, *Prin. Sci. Aid.*
S. E. May, *Prin. Sci. Aid.*
F. W. Foster, *Sr. Sci. Aid.*
C. A. McIsaac, *Sr. Sci. Aid.*
D. G. Murphy, *Sr. Sci. Aid.*
W. A. Collins, *Sr. Sci. Aid.*
J. A. Priest, *Sr. Sci. Aid.*
New Jersey—Bound Brook:
H. A. Ames, *Admin. Asst.*
C. T. Davis, *Prin. Sci. Aid.*

Scouting and Extermination—Continued.
New Jersey—Bound Brook—Continued.
F. W. Graham, *Sr. Sci. Aid.*
W. J. Nestle, *Sr. Sci. Aid.*

Quarantine and Inspection.
Massachusetts—Boston (hdqrs.)—
J. N. Summers, B. S., Ph. D., *Assoc. Ent.*
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W. J. Ahearn, *Sci. Aid.*
I. L. Bailey, *Sci. Aid.*
P. S. Coffin, *Sci. Aid.*
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M. H. Feeney, *Sci. Aid.*
G. J. Galvin, *Sci. Aid.*
D. Harrington, *Sci. Aid.*
J. Keefe, *Sci. Aid.*
F. L. Keene, *Sci. Aid.*
R. W. Kennedy, *Sci. Aid.*
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C. A. Manchester, *Sci. Aid.*
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G. A. Miller, *Sci. Aid.*
J. F. Murray, *Sci. Aid.*
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L. H. Noble, *Sci. Aid.*
J. J. Roach, *Sci. Aid.*
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A. C. Ward, *Sci. Aid.*

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(Hdqrs., Riverton, N. J.)

Loren B. Smith, B. S., *Sr. Ent., in charge.*

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Curtis P. Clausen, M. S., *Ent., in charge.*
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T. R. Gardner, B. S., *Asst. Ent.*
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G. E. Spencer, M. S., *Asst. Ent.*
H. C. Hallock, LL. B., M. S., *Asst. Ent.*
H. A. Jaynes, B. S., *Asst. Ent.*
F. W. Metzger, B. S., *Asst. Ent.*
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V. A. Johnson, B. S., *Jr. Ent.*
J. K. Holloway, B. S., *Jr. Ent.*
M. C. Swingle, B. S., *Jr. Ent.*
Robert W. Burrell, B. S., *Jr. Ent.*
F. E. Baker, B. S., *Jr. Ent.*
Edward Lundberg, B. S., *Jr. Ent.*
M. R. Osburn, *Field Asst.*
H. W. Allen, Ph. D., *Agt.*
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R. J. Sim, *Agt.*
P. A. van der Meulen, *Agt.*
O. G. Anderson, *Agt.*
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W. A. Shinkwin, *Sr. Sci. Aid.*
H. B. Ward, *Agt.*
W. E. Cranston, *Agt., in charge of quar. in Delaware.*
R. Wagner, *Agt.*
A. R. Whitcraft, *Agt.*
C. H. Ballou, *Agt.*
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G. B. Stichter, *Agt.*
C. H. Zimmer, *Agt., in charge of quar. in N. Y.*
J. K. Gould, *Agt., in charge of quar. in Pa.*
J. P. Johnson, *Agt., in charge of quar. in Conn.*
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W. N. Dobbs, *Field Supvr. in Insect Control.*

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Vernon Bailey, *Biol., Field Naturalist.*
Washington—Puyallup—
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Wyoming—Jackson—
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F. E. Garlough, A. B., *Asst. Biol.*
Colorado—Denver (lab. hdqrs.):
S. E. Piper, B. S., *Assoc. Biol., Leader.*
E. E. Horn, *Asst. Biol.*
H. E. Williams, *Asst. Biol.*

Destruction of Predatory Animals (in coop. with States) (field).
Alaska—Juneau:
R. K. Stewart, *Leader.*
Arizona—Phoenix:
M. E. Musgrave, *Asst. Admin. Off., Leader.*
California—Sacramento:
C. G. Poole, *Asst. Admin. Off., Leader.*
W. F. Polson, *Jr. Pred. An. Insp.*
Colorado:
Denver (hdqrs. for Colo.)—
L. L. Laythe, B. S., *Asst. Biol., Leader.*

Destruction of Predatory Animals—Contd.
Colorado—Continued.
Monte Vista—
J. W. Crook, *Sr. Admin. Asst.*
Montrose—
G. M. Trickel, *Sr. Admin. Asst.*
Idaho:
Dubois—
L. S. Twitchell, *Jr. Pred. An. Insp.*
Gooding (hdqrs. for Idaho)—
L. J. Goldman, *Asst. Admin. Off., Leader.*
Montana—Billings:
R. E. Bateman, *Asst. Admin. Off., Leader.*
Nevada:
Ely—
A. L. Rasmussen, *Sr. Admin. Asst.*
Reno (hdqrs. for Nev.)—
E. R. Sans, *Asst. Admin. Off., Leader.*
New Mexico—Albuquerque:
A. E. Gray, *Asst. Biol., Leader.*
W. A. Mullins, *Sr. Admin. Asst.*
Oregon—Portland:
S. G. Jewett, *Asst. Admin. Off., Leader.*
Elmer Williams, *Sr. Admin. Asst.*
H. W. Dobyns, *Sr. Admin. Asst.*
South Dakota—Rapid City (hdqrs. for S. Dak.):
Louis Knowles, *Asst. Admin. Off., Leader.*
Texas:
Canyon—
O. L. Coleman, *Sr. Admin. Asst.*
San Antonio (hdqrs. for Texas)—
C. R. Landon, *Asst. Admin. Off., Leader.*
Utah—Salt Lake City:
G. E. Holman, *Asst. Admin. Off., Leader.*
Edward Rasmussen, *Sr. Admin Asst.*
Washington—Olympia:
G. R. Bach, D. V. S., *Asst. Admin. Off., Leader.*
L. L. Englund, *Agt.*
Wyoming:
Cheyenne (hdqrs. for Wyo.)—
C. J. Bayer, *Asst. Admin. Off., Leader.*
Sheridan—
H. P. Williams, *Sr. Admin. Asst.*

Destruction of Injurious Rodents (in coop. with States).
EASTERN HEADQUARTERS:
District of Columbia—Washington (hdqrs., for Eastern United States)—
James Silver, *Asst. Biol., Leader.*
F. N. Jarvis, *Asst. Biol. Aid.*
Indiana—Lafayette—
G. C. Oderkirk, B. S. A., *Asst. Biol.*
Massachusetts—Amherst—
E. M. Mills, B. S., *Jr. Biol.*
North Carolina—Raleigh—
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Destruction of Injurious Rodents—Contd.

WESTERN HEADQUARTERS:

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Phoenix (hdqrs. for Ariz.)—
D. A. Gilchrist, *Asst. Biol., Leader.*
Tucson—
B. E. Foster, *Jr. Biol.*

California—
Sacramento (hdqrs. for Calif.)—
Joseph Keyes, *Asst. Biol., Leader.*
H. G. Hansen, *Jr. Biol.*

Colorado—Denver—
L. L. Laythe, B. S., *Asst. Biol., Leader.*
D. D. Green, B. S., *Jr. Biol.*

Idaho—
Boise (hdqrs. for Idaho)—
W. E. Crouch, B. S. A., *Asst. Biol., Leader.*
Pocatello—
T. B. Murray, *Jr. Biol.*
P. T. Quick, *Asst. Biol. Aid.*

Kansas—Manhattan—
A. E. Oman, B. S., M. F., *Asst. Biol., Leader.*
Roy Moore, *Asst. Biol. Aid.*

Montana—Bozeman—
O. E. Stephl, B. S., *Asst. Biol., Leader.*
E. C. Cates, B. S. A., *Jr. Biol.*

Nevada—Reno—
E. R. Sans, *Asst. Admin. Off., Leader.*

New Mexico—Albuquerque—
A. E. Gray, *Asst. Biol., Leader.*
Edward Edgington, B. S. A., *Jr. Biol.*
J. C. Gatlin, *Asst. Biol. Aid.*

Oregon—Portland—
I. N. Gabrielson, A. B., *Asst. Biol., Leader.*
Roy Fugate, *Jr. Biol.*
J. E. Branson, *Agt.*

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Louis Knowles, *Asst. Admin. Off., Leader.*

Texas—San Antonio—
L. C. Whitehead, B. S. A., *Asst. Biol., Leader.*

Utah—Salt Lake City—
R. S. Zimmerman, *Asst. Biol., Leader.*
A. W. Moore, *Jr. Biol.*

Washington—
Olympia (hdqrs. for Wash.)—
L. K. Couch, B. S. A., *Asst. Biol., Leader.*
Puyallup—
John Finley, B. S. A., *Jr. Biol.*

Wyoming—Laramie (hdqrs. for Wyo.)—
A. M. Day, B. S., *Asst. Biol., Leader.*

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Remington Kellogg, M. S., *Assoc. Biol.*
J. R. Malloch, A. B., *Assoc. Biol.*
L. L. Buchanan, A. B., *Asst. Biol.*
C. C. Sperry, A. B., *Asst. Biol.*
F. M. Uhler, A. B., *Jr. Biol.*
Phoebe Knappen, M. S., *Jr. Biol.*

Economic Investigations of Migratory Birds.

E. R. Kalmbach, *Biol.*
C. C. Sperry, A. B., *Asst. Biol.*

Quail Investigations (in coop. with committee representing Quail Study Fund for Georgia and Florida).

FIELD HEADQUARTERS:

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H. G. Horn, B. S., *Jr. Biol. Asst.*

California—Fontana (Exp. Rabbit Farm)—
D. M. Green, *Assoc. Biol., in charge of Farm.*

DIVISION OF GAME AND BIRD RESERVATIONS

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Big-Game Preserves.

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H. H. Hoyt, *Asst. Warden, Nat. Bison Range.*

Nebraska—Valentine:
F. M. Dille, *Warden, Niobrara Reserv.*

North Dakota—Fort Totten:
W. D. Parker, *Warden, Sullys Hill Nat. Game Preserve.*

South Dakota—Hot Springs:
A. P. Chambers, *Warden, Wind Cave Nat. Game Preserve.*

Wyoming—Jackson:
A. P. Nelson, *Warden, Elk Refuge.*

Bird Refuges.

Alaska—Juneau:
Hugh E. Terhune, *Admin. Off., Alaska Reserv.*

Bird Refuges—Continued.

Florida:
Daytona Beach—
J. V. Kelsey, *Warden, Mosquito Inlet Reserv.*
St. Petersburg—
H. P. Bennett, *Warden, Tampa Bay group of refuges.*

Georgia—Sapeloe:
H. E. Coffin, D. E., *Warden, Blackbeard Island Reserv.*[1]
J. F. Casey, *Asst. Warden, Blackbeard Island Reserv.*[1]

Hawaii—Honolulu:
G. P. Wilder, *Warden, Hawaiian Island Reserv.*

Missouri—Hornersville:
L. L. Bryan, *Warden, Big Lake Reserv., Ark.*

Montana—Moiese:
Frank H. Rose, *Warden, Nine Pipe and Pablo Reserv.*

Nebraska—Minatare:
W. R. Jones, *Warden, North Platte Reserve.*[2]

New Mexico:
Carlsbad—
L. E. Foster, *Warden, Carlsbad Reserv.*[2]
Elephant Butte, via Engle—
G. R. Shannon, *Warden, Rio Grande Reserv.*[2]

Oregon:
Burns—
L. E. Hibbard, *Supvr., Lake Malheur Reserv.*
Voltage—
G. M. Benson, *Warden, Lake Malheur Reserv.*

South Dakota—Belle Fourche:
G. M. Wilson, *Warden, Belle Fourche Reserv.*

Washington—Conconully:
C. M. Conger, *Warden Conconully Reserv.*[2]

Upper Mississippi River Wild Life and Fish Refuge.

Minnesota—Winona (hdqrs.):
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Rudolph Dieffenbach, B. F., *Land Valuation Engr.*
S. B. Hall, A. B., M. F., *Atty.*
John A. Murphy, *Sr. Legal Asst.*
E. C. Hotchkiss, *Jr. Admin. Asst.*
H. W. Hicks, B. S., *Jr. For.*
R. M. Rutherford, B. S., *Jr. For.*
Chalmer Jackson, *Transitman.*
C. R. Hallowell, *Land Valuation Asst.*
Otto E. Mueller, *Land Valuation Asst.*
Harley C. Lawrence, *Reserv. Ranger.*
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Talbott Denmead, LL. B., *Dep. Chief U. S. Game Warden.*
W. R. Dillon, *Sr. Admin. Asst.*
F. L. Earnshaw, LL. B., *Admin. Asst.*
F. P. Callaghan, LL. B., *Jr. Admin. Asst.*
F. G. Grimes, *Jr. Admin. Asst.*

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Arkansas—Little Rock:
Geo. M. Riddick.

California—Berkeley:
George Tonkin.

Florida—Daytona Beach:
J. V. Kelsey.

Georgia—Savannah:
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Illinois—Peoria:
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Kentucky—Russellville:
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Maine—Portland:
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J. E. Perry.

Texas—Houston:
Frank Clarkson.

Virginia—Locustville:
Thomas T. Bloxsom.

Washington—Spokane:
W. H. Ransom.

[1] Cooperative warden.
[2] Cooperative warden; Reclamation Service employee.

Regulation of Importation of Birds and Mammals.

T. S. Palmer, A. B., M. D., *Biol., in charge.*

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Hawaii—Honolulu—

D. T. Fullaway, *Importation Insp.*

L. A. Whitney, *Importation Insp.*

Maryland—Baltimore—

W. H. Fisher, *Importation Insp.*

New York—New York—

B. S. Bowdish, *Importation Insp.*

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Regulation of Importation of Birds and Mammals—Continued.

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C. S. Bruning, *Asst. Hwy. Engr.*
J. E. Jensen, *Asst. Hwy. Engr.*
F. B. Lessman, B. S. in C. E., *Asst. Hwy. Engr.*
E. F. Strickler, *Asst. Hwy. Engr.*
W. H. Smith, B. S. in C. E., *Asst. Hwy. Engr.*
R. Thirion, B. S. in C. E., *Asst. Hwy. Engr.*
W. J. Ward, B. S. in C. E., *Asst. Hwy. Engr.*
R. Alvis, B. S. in C. E., *Jr. Hwy. Engr.*
J. E. Applegate, B. S. in C. E., *Jr. Hwy. Engr.*
M. Christensen, B. S. in C. E., *Jr. Hwy. Engr.*
H. E. Cunningham, B. S. in C. E., *Jr. Hwy. Engr.*
H. E. Dahman, B. S. in C. E., *Jr. Hwy. Engr.*
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A. E. Palen, B. S. in C. E., *Hwy. Engr*
A V. Williamson, *Hwy. Engr.*
L. F. Copeland, B. S. in C. E., *Hwy. Bridge Engr.*
C. F. Capes, *Assoc. Hwy. Engr.*
R. S. Corlew, *Assoc. Hwy. Engr.*
W. H. Curwen, B. S. in C. E., *Assoc. Hwy. Engr.*
L. A. Hamilton, *Assoc. Hwy. Engr.*
B. B. Hauser, B. C. E., *Assoc. Hwy. Engr.*

District No. 3—Continued.
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C. E. Learned, B. S. in C. E., *Assoc. Hwy. Engr.*
W. D. Ross, C. E., *Assoc Hwy. Engr.*
J. D. Slye, C. E., *Assoc. Hwy. Engr.*
E. C. White, B. S. in C. E., *Assoc. Hwy. Bridge Engr.*
E. F. Gleason, B. S. in C. E., *Asst. Hwy. Engr.*
R. C. Jones, *Asst. Hwy. Engr*
J. G. Rose, B. S. in C. E., B. A., *Asst. Hwy. Engr.*
J. E. Williams, B. S. in C. E., *Asst. Hwy. Engr.*
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G. W. Hoffman, B. S. in C. E., *Jr. Hwy. Engr.*
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G. M. Williams, B. S. in C. E., *Jr. Hwy. Engr.*
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I. F. Winsor, *Assoc. Hwy. Engr.*
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E. E. Kidder, B. S. in C. E., *Hwy. Engr.*
B. W. Matteson, B. S., *Hwy. Engr.*
L. M. Huggins, B. S. in C. E., *Hwy. Bridge Engr.*
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C. W. Cross, B. S. in M. E., *Assoc. Hwy. Engr.*
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Illinois—Springfield—
A. J. Surratt, *Agr. Stat.*
H. L. Collins, *Asst. Agr. Stat.*
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K. F. Petsch, B. S., *Jr. Pl. Quar. Insp.*
E. M. Prather, B. S., *Jr. Pl. Quar. Insp.*
C. E. Prince, jr., B. S., *Jr. Pl. Quar. Insp.*
George A. Samouce, B. S., *Jr. Pl. Quar. Insp.*
C. V. Scott, B. S., *Jr. Pl. Quar. Insp.*
G. F. Smith, B. S., *Jr. Pl. Quar. Insp.*
R. G. Smith, B. S., *Jr. Pl. Quar. Insp.*
W. I. Whiton, B. S., *Jr. Pl. Quar. Insp.*

Inspection Division—Continued.
FIELD HEADQUARTERS—Continued.
Oregon—
Astoria—
H. Sargent, B. S., *Asst. Pl. Quar. Insp.*
Portland—
Thomas J. Baker, A. B., *Asst. Pl. Quar. Insp.*
Pennsylvania—Philadelphia—
Max Kisliuk, jr., M. S., *Assoc. Pl. Quar. Insp., in charge.*
C. G. Albrecht, B. S., *Asst. Pl. Quar. Insp.*
W. W. Chapman, B. S., *Jr. Pl. Quar. Insp.*
W. J. Ehinger, B. S., *Jr. Pl. Quar. Insp.*
A. G. Harley, B. S., *Jr. Pl. Quar. Insp.*
Porto Rico—
San Juan—
C. E. Cooley, *Pl. Quar. Insp., in charge.*
Geraldus Gay, B. S., *Assoc. Pl. Quar. Insp.*
Herschell Fox, B. S., *Jr. Pl. Quar. Insp.*
Mayaguez—
S. D. Whitlock, B. S., *Assoc. Pl. Quar. Insp.*
South Carolina—Charleston—
John T. Rogers, M. S., *Assoc. Pl. Quar. Insp.*
Texas—
Brownsville—
O. D. Deputy, B. S., *Assoc. Pl. Quar. Insp., in charge.*
A. A. Stalmach, A. B., *Asst. Pl. Quar. Insp.*
W. S. Jones, B. S., *Jr. Pl. Quar. Insp.*
R. B. Lattimore, B. S., *Jr. Pl. Quar. Inspr.*
Del Rio—
H. M. Cely, B. S., *Asst. Pl. Quar. Insp., in charge.*
R. B. Haller, *Jr. Pl. Quar. Insp.*
Eagle Pass—
J. B. R. Leary, B. S., *Assoc. Pl. Quar. Insp., in charge.*
M. M. Richardson, *Asst. Pl. Quar. Insp.*
G. H. Russell, *Asst. Pl. Quar. Insp.*
C. H. Rothe, B. S., *Jr. Pl. Quar. Insp.*
El Paso—
T. A. Arnold, B. S., *Assoc. Pl. Quar. Insp., in charge.*
A. H. Greer, B. S., *Asst. Pl. Quar. Insp.*
E. G. Hagadorn, B. S., *Asst. Pl. Quar. Insp.*
B. R. Anderson, B. S., *Jr. Pl. Quar. Insp.*
W. C. Jones, *Fumigation Mech.*

Inspection Division—Continued.
FIELD HEADQUARTERS—Continued.
Texas—Continued.
Galveston—
C. P. Trotter, *Asst. Pl. Quar. Insp.*
Hidalgo—
J. M. Singleton, B. S., *Asst. Pl. Quar. Insp.*
U. G. Haddon, *Jr. Pl. Quar. Insp.*
Houston—
H. C. Millender, *Asst. Pl. Quar. Insp.*
Laredo—
V. J. Shiner, B. S., *Assoc. Pl. Quar. Insp., in charge.*
R. C. Bondy, B. S., *Jr. Pl. Quar. Insp.*
B. C. House, B. S., *Jr. Pl. Quar. Insp.*
F. E. Swan, B. S., *Jr. Ent.*
H. R. Cary, *Sr. Fumigation Mech.*
Washington—Seattle—
A. G. Webb, B. S., *Assoc. Pl. Quar. Insp., in charge.*
E. I. Smith, B. S., *Asst. Pl. Quar. Insp.*
M. J. Forsell, B. S., *Jr. Pl. Quar. Insp.*
Harvey A. Horton, A. M., *Jr. Pl. Quar. Insp.*
Wm. R. Shinn, B. S., *Jr. Pl. Quar. Insp.*
J. P. Young, B. S., *Jr. Pl. Quar. Insp.*

Quarantine Station (District of Columbia).
Peter Bisset, *Hort., in charge.*
W. B. Wood, B. S., *Chief Insp.*
Norman Perrine, Ph. C., P. D., *Assoc. Chem.*
H. Y. Gouldman, B. S., *Asst. Pl. Quar. Insp.*
R. G. Cogswell, A. B., *Asst. Pl. Quar. Insp.*
W. T. Owrey, B. S., *Asst. Pl. Quar. Insp.*
W. R. Lucas, *Asst. Gardener.*

DOMESTIC PLANT QUARANTINES

S. B. Fracker, A. B., M. S., Ph. D., *Sr. Pl. Quar. Admin., in charge.*

ERADICATION OF COTTON PINK BOLLWORM AND THURBERIA WEEVIL

(Hdqrs., San Antonio, Tex.)

Geo. G. Becker, B. S., *Ent., in charge.*
F. S. Puckett, B. S., *Admin. Off.*
G. C. Bond, LL. B., *Asst. Pl. Quar. Insp.*
J. S. Brock, B. S., *Asst. Pl. Quar. Insp.*
P. A. Hoidale, *Asst. Pl. Quar. Insp.*
R. R. Rosa, B. S., *Asst. Pl. Quar. Insp.*
Ivan Shiller, M. S., *Asst. Pl. Quar. Insp.*
S. D. Smith, *Asst. Pl. Quar. Insp.*
K. H. Townsend, *Asst. Pl. Quar. Insp.*
J. C. Woodward, B. S., *Asst. Pl. Quar. Insp.*
G. W. Chowns, B. S., *Jr. Pl. Quar. Insp.*
M. E. Cole, B. S., *Jr. Pl. Quar. Insp.*
W. E. Conn, B. S., *Jr. Pl. Quar. Insp.*

L. F. Curl, B. S., *Jr. Pl. Quar. Insp.*
C. P. Daley, B. S., *Jr. Pl. Quar. Insp.*
W. W. Decell, B. S., *Jr. Pl. Quar. Insp.*
R. L. Eberhard, *Jr. Pl. Quar. Insp.*
M. H. Ford, B. S., *Jr. Pl. Quar. Insp.*
B. C. Graham, B. S., *Jr. Pl. Quar. Insp.*
G. G. Harris, B. S., *Jr. Pl. Quar. Insp.*
L. D. Harris, B. S., *Jr. Pl. Quar. Insp.*
W. R. Heard, B. S., *Jr. Pl. Quar. Insp.*
F. I. Jeffrey, B. S., *Jr. Pl. Quar. Insp.*
A. C. Johnson, *Jr. Pl. Quar. Insp.*
D. M. McEachern, B. S., *Jr. Pl. Quar. Insp.*
M. S. Mirimanian, *Jr. Pl. Quar. Insp.*
J. B. Moore, B. S., *Jr. Pl. Quar. Insp.*
P. L. Netterville, B. S., *Jr. Pl. Quar. Insp.*
J. W. Patterson, B. S., *Jr. Pl. Quar. Insp.*
E. F. Pepper, B. S., *Jr. Pl. Quar. Insp.*
L. G. Plyler, B. S., *Jr. Pl. Quar. Insp.*
H. B. Prickett, *Jr. Pl. Quar. Insp.*
W. F. Rice, *Jr. Pl. Quar. Insp.*
W. B. Rogers, *Jr. Pl. Quar. Insp.*
A. V. Smith, B. S., *Jr. Pl. Quar. Insp.*
F. O. Swan, B. S., *Jr. Pl. Quar. Insp.*
W. E. Von Rosenburg, B. S., *Jr. Pl. Quar. Insp.*
O. L. Walton, B. S., *Jr. Pl. Quar. Insp.*
J. D. Waugh, B. S., *Jr. Pl. Quar. Insp.*
R. W. White, *Jr. Pl. Quar. Insp.*
E. L. Wilde, B. S., *Jr. Pl. Quar. Insp.*
F. M. Wilson, *Jr. Pl. Quar. Insp.*
G. B. Ray, B. S., *Jr. Ent.*
I. B. Rutledge, B. S., *Jr. Ent.*
A. Thomae, B. S., *Jr. Ent.*
E. M. Dieffenbach, B. S., *Jr. Mech. Engr.*
W. E. Gassett, *Jr. Sci. Aid.*

DATE PALM SCALE ERADICATION

(Hdqrs., Indio, Calif.)

Research.
F. S. Stickney, M. S., Ph. D., *Assoc. Ent., in charge.*

Eradication.
A. J. Shamblin, *Assoc. Hort., in charge.*
A. E. Cavanagh, *Sci. Aid.*
H. B. Skinner, *Agt.*
B. S. Boyer, *Sci. Aid.*
I. C. Caswell, *Jr. Sci. Aid.*

GRAIN FUTURES ADMINISTRATION

J. W. T. Duvel, D. Sc., *Chief.*
Rollin E. Smith, *Asst. Chief Admin. Off.*
Albert Strack, *Admin. Asst.*

Grain Exchange Supervision.
California—Sacramento:
L. M. Jeffers, B. S., *Supvr., in charge.*
Illinois—Chicago:
Leslie A. Fitz, B. S., *Supvr., in charge.*
Charles M. Fritz, B. S. A., M. S., *Supvr.*
Joseph M. Mehl, L. L. M., M. P. S., *Supvr.*
Paul Mehl, B. S., M. S., *Econ.*
Edward W. McGillivray, *Supvr.*

Grain Exchange Supervision—Continued.
Illinois—Chicago—Continued.
Enos M. Blaylock, C. P. A., *Sr. Acct.*
Michael M. Thul, *Jr. Supvr.*
Minnesota—Minneapolis:
Jewett R. Mathewson, *Supvr. in charge.*
Missouri—Kansas City:
Wm. F. Logan, *Supvr., in charge.*

FOOD, DRUG, AND INSECTICIDE ADMINISTRATION

W. G. Campbell, A. B., LL. B., *Dir. of Regulatory Work, in charge.*
P. B. Dunbar, Ph. D., *Asst. Chief.*
F. B. Linton, *Asst. to Chief.*
L. M. Clarke, *Chief Clerk.*
Katharine A. Smith, A. B., *Ed.*

OFFICE OF INTERSTATE SUPERVISION

C. W. Crawford, M. S., *Chem., in charge.*
A. S. Mitchell, M. S., Phar. C., *Chem.*
Martin Boyle, B. S., LL. B., *Assoc. Chem.*
W. L. Hanaway, B. S., *Asst. Chem.*

OFFICE OF IMPORT SUPERVISION

A. E. Taylor, Ph. D., *Chem., in charge.*
Arthur Stengel, Phar. G., *Assoc. Admin. Off.*

OFFICE OF INSECTICIDE AND FUNGICIDE SUPERVISION

J. K. Haywood, B. S., M. D., *Sr. Chem., in charge.*
J. G. Shibley, LL. B., *Sr. Admin. Asst.*

OFFICE OF STATE AND CITY COOPERATION

W. S. Frisbie, Ph. B., *Sr. Chem., in charge.*

FOOD CONTROL

R. W. Balcom, Ph. D., *Sr. Chem., in charge.*

Central Unit.

B. G. Hartmann, Ph. D., *Chem.*
V. B. Bonney, B. S., *Assoc. Chem.*
H. A. Lepper, B. S., *Assoc. Chem.*
L. H. Bailey, A. B., *Asst. Chem.*
W. F. Clarke, Ph. D., *Asst. Chem.*
Fred Hillig, B. S., *Asst. Chem.*
J. T. Keister, M. S., Phar. D., *Asst. Chem.*
J. I. Palmore, M. S., *Asst. Chem.*
C. F. Goodrich, A. B., *Jr. Chem.*

Stock Feed Unit.

G. L. Bidwell, B. S., *Assoc. Chem.*
J. B. Reed, A. B., *Assoc. Chem.*
M. R. Coe, B. S., *Asst. Chem.*
R. S. McKinney, B. S., *Jr. Chem.*
W. F. Sterling, B. S., *Jr. Chem.*

Water and Beverage Unit.

J. W. Sale, A. M., *Chem.*
J. B. Wilson, A. B., *Assoc. Chem.*
C. H. Badger, B. S., *Asst. Chem.*
Anna E. Mix, Phar. D., *Jr. Chem.*

Microbiological Unit.

A. C. Hunter, Ph. D., *Assoc. Bact.*
B. A. Linden, *Jr. Bact.*
W. R. Turner, M. S., *Jr. Bact.*

Microchemical Unit.

E. Alberta Read, Ph. D., M. D., *Microan.*
C. H. Stephenson, B. S., *Assoc. Microan.*

TEA CONTROL

G. F. Mitchell, B. S., *Supervising Tea Exam.*

COLOR CERTIFICATION

H. T. Herrick, Ch. E., *Sr. Chem., in charge.*
O. L. Evenson, A. M., *Asst. Chem.*

DRUG CONTROL

G. W. Hoover, M. S., M. D., *Sr. Chem., in charge.*

Chemical Unit.

A. G. Murray, A. B., *Chem.*
L. E. Warren, B. S., *Chem.*
S. Palkin, Ph. D., *Assoc. Chem.*
H. Wales, Ph. D., *Assoc. Chem.*
H. R. Watkins, M. S., *Asst. Chem.*

Medical Unit.

P. McC. Lowell, M. D., D. P. H., *Med. Off.*
B. T. Woodward, V. M. D., *Vet.*
W. Frank Galatzo, M. D., *Asst. Med. Off.*

Pharmacology Unit.

J. C. Munch, Ph. D., *Pharmacol.*
W. T. McClosky, A. B., *Asst. Pharmacol.*
Georgiana S. Gittinger, A. M., *Jr. Pharmacol.*
N. G. Barbella, *Asst. Sci. Aid.*

Pharmacognosy Unit.

J. F. Clevenger, M. S., *Asst. in Pl. Histology.*

SPECIAL COLLABORATIVE INVESTIGATIONS

L. F. Kebler, M. S., M. D., *Chem., in charge.*
W. O. Emery, Ph. D., *Chem.*
V. K. Chesnut, B. S., *Assoc. Chem.*
C. D. Wright, Ph. D., *Asst. Chem.*

INSECTICIDE, FUNGICIDE, AND CAUSTIC POISON CONTROL

C. C. McDonnell, Sc. D., *Sr. Chem., in charge.*
J. J. T. Graham, M. S., *Chem.*
E. L. Griffin, Ph. D., *Chem.*
W. D. Lynch, B. S., LL. B., *Chem.*
C. M. Smith, B. S., *Chem.*
E. Wallace, M. S. A., Ph. D., *Path.*
H. H. Custis, M. A., Ph. D., *Assoc. Chem.*
G. L. Keenan, A. M., *Assoc. Microan.*
W. J. Morgan, M. S., *Assoc. Chem.*
A. C. Nothstine, B. S., *Assoc. Chem.*
F. P. Schlatter, B. S., *Assoc. Path.*
J. C. Bubb, B. S., *Asst. Chem.*
Rosewell Jinkins, M. S., *Asst. Chem.*
J. N. Taylor, M. S., *Asst. Chem.*
N. P. Bekkedahl, B. S., *Jr. Chem.*
C. M. Brewer, M. S., *Jr. Bact.*
E. H. Hamilton, B. S., *Jr. Chem.*
H. A. Jones, B. S., *Jr. Chem.*
N. L. Knight, B. S., *Jr. Chem.*
F. A. Spurr, B. S., *Jr. Chem.*

FIELD HEADQUARTERS:

New Jersey—Haddon Heights—
D. P. Perry, B. S., *Asst. Path.*
Oregon—Corvallis—
F. D. Bailey, A. B., A. M., *Asst. Path.*
Virginia—Vienna—
W. S. Abbott, B. S., *Ent.*
W. M. Davidson, M. S., *Assoc. Ent.*
Wallace Colman, M. S., *Asst. Ent.*
L. J. Bottimer, B. S., *Jr. Ent.*

NAVAL STORES CONTROL

F. P. Veitch, Sc. D., *Sr. Chem., in charge.*
V. E. Grotlisch, Ch. E., *Assoc. Naval Stores Classifier.*
W. Kyle Ward, jr., B. S., *Jr. Chem.*

FIELD HEADQUARTERS:

Alabama—Mobile—
S. W. Pickens, *Asst. Naval Stores Classifier.*
Georgia—Savannah—
H. M. King, *Assoc. Naval Stores Classifier.*
Louisiana—Leesville—
J. W. Aldrich, *Asst. Naval Stores Classifier.*
F. W. Thomas, *Asst. Naval Stores Classifier.*

FIELD HEADQUARTERS—Continued.
Mississippi—Gulfport—
R. L. Helveston, *Asst. Naval Stores Classifier.*
New York—New York—
C. E. Smith, *Assoc. Naval Stores Classifier.*

FIELD INSPECTION SERVICE

Eastern District (Hdqrs., New York, N. Y.).
W. R. M. Wharton, A. M., *Chief of Dist.*
S. A. Postle, *Asst. to Chief.*
C. O. Dodge, B. S., *Chem., Asst. to Chief.*
C. A. Herrmann, A. B., *Assoc. Chem.*
H. B. Mead, Ph. B., *Assoc. Chem.*
STATIONS:
Georgia—Savannah—
J. J. McManus, Phar. G., Phar. D., *Chief of Sta.*
Joseph Callaway, jr., M. S., *Assoc. Chem.*
L. A. Salinger, B. L., *Jr. Chem.*
L. A. Smith, Phar. D., *Sr. Insp.*
F. B. McAuliffe, *Insp.*
C. F. J. O'Neill, *Insp.*
Maryland—Baltimore—
D. M. Walsh, A. M., *Chief of Sta.*
F. L. Elliott, B. S., *Assoc. Chem.*
T. F. Pappe, A. B., *Assoc. Chem.*
H. R. Smith, B. S., *Assoc. Chem.*
E. L. Anderson, A. B., *Asst. Chem.*
D. L. Cottle, A. B., *Jr. Chem.*
W. C. Woodfin, B. S., *Jr. Chem.*
A. E. Lowe, *Chief Insp.*
B. R. Minshall, Phar. G., *Sr. Insp.*
F. X. Colligan, B. S., *Insp.*
T. R. Ennis, *Insp.*
L. L. Judge, *Insp.*
H. H. Mottern, B. S., *Insp.*
Massachusetts—Boston—
G. H. Adams, Phar. G., *Chief of Sta.*
E. L. P. Treuthardt, B. S., *Assoc. Chem.*
H. W. Haynes, B. S., *Asst. Chem.*
C. H. Hickey, B. S., *Asst. Chem.*
F. T. Bestwick, *Sr. Insp.*
F. H. Gray, *Sr. Insp.*
C. E. Holton, M. D., *Sr. Insp.*
C. A. Wood, *Insp.*
E. C. Griswold, *Tea Exam.*
New York—
Buffalo—
F. L. Wollard, *Chief of Sta.*
W. H. Heath, B. S., *Assoc. Chem.*
L. W. Ferris, A. B., *Asst. Chem.*
P. L. Leavitt, M. S., *Jr. Chem.*
W. C. Miller, *Sr. Insp.*
C. C. Sullivan, B. S., *Sr. Insp.*
New York—
J. O. Clarke, B. S., *Chief of Sta.*
J. A. Cummings, A. B., *Assoc. Chem.*
J. Feldbaum, B. S., *Assoc. Chem.*
H. D. Grigsby, B. S., *Assoc. Chem.*
C. F. Jablonski, B. S., *Assoc. Chem.*

Eastern District—Continued.
STATIONS—Continued.
New York—Continued.
New York—Continued.
W. E. Kirby, A. M., *Assoc. Chem.*
L. J. Schwarz, B. S., *Assoc. Pharmacognosist.*
G. C. Swan, A. M., *Assoc. Chem.*
L. Katz, *Asst. Chem.*
H. I. Macomber, B. S., *Asst. Chem.*
L. N. Markwood, B. S., *Asst. Chem.*
E. R. Miller, A. B., *Asst. Chem.*
Ray Powers, B. S., *Asst. Chem.*
B. B. Wright, B. S., *Asst. Chem.*
J. T. Bashour, B. S., *Jr. Chem.*
T. N. Bennett, B. S., *Jr. Chem.*
C. F. Bickford, jr., M. S., *Jr. Chem.*
A. Chuckrow, B. S., *Jr. Chem.*
P. A. Clifford, A. M., *Jr. Chem.*
O. A. F. Gulteras, B. S., *Jr. Chem.*
M. M. Jackson, B. S., *Jr. Chem.*
M. B. Jacobs, B. S., *Jr. Chem.*
A. B. Mitchell, B. S., *Jr. Chem. Engr.*
M. L. Offutt, A. M., *Jr. Chem.*
C. R. Owens, B. S., *Jr. Chem.*
J. A. Reilly, M. S., *Jr. Chem.*
R. A. Robinson, B. S., *Jr. Chem.*
D. B. Scott, A. M., *Jr. Chem.*
A. B. Vaughn, B. S., *Jr. Chem.*
Olaf Olsen, *Chief Insp.*
F. P. Hamill, A. B., *Sr. Insp.*
C. Hyak, B. S., *Sr. Insp.*
L. L. Lusby, *Sr. Insp.*
P. A. Jackman, *Insp.*
A. B. Johns, *Insp.*
C. T. Smith, *Insp.*
C. F. Hutchinson, *Chief Tea Exam.*
J. B. Kennedy, A. B., *Naval Stores Exam.*
Pennsylvania—Philadelphia—
C. S. Brinton, *Chief of Sta.*
A. M. Henry, B. S., *Asst. Chem.*
H. Bercovitz, *Jr. Chem. Engr.*
J. Fitelson, B. S., *Jr. Chem.*
M. L. Gingell, *Insp.*
E. L. Palmer, *Insp.*
G. W. Sooy, B. S., *Insp.*
Porto Rico—San Juan—
W. J. McGee, B. S., *Chief of Sta.*

Central District (Hdqrs., Chicago, Ill.).
E. H. Goodnow, B. S., *Acting Chief of Dist.*
H. H. Walters, *Asst. to Chief.*
D. B. Bisbee, M. S., *Assoc. Chem.*
W. E. Hillyer, M. S., LL. B., *Jr. Chem.*
STATIONS:
Illinois—Chicago—
A. E. Paul, M. S., *Chief of Sta.*
Homer Runkel, B. S., *Chem.*
E. H. Berry, B. S., *Assoc. Chem.*
J. H. Bornmann, M. S., *Assoc. Chem.*
C. K. Glycart, B. S., *Assoc. Chem.*
H. B. Switzer, B. S., *Assoc. Bact.*

Central District—Continued.
STATIONS—Continued.
Ilinois—Chicago—Continued.
F. L. Hart, A. M., *Asst. Chem.*
L. Jones, A. B., *Asst. Chem.*
W. F. Kunke, B. S., *Asst. Chem.*
C. A. Roach, B. S., *Asst. Chem.*
A. G. Buell, B. S., *Jr. Chem.*
H. L. Clapp, B. S., *Jr. Chem.*
E. C. Deal, Phar. G., Phar. C., *Jr. Chem.*
T. C. Dunn, B. S., *Jr. Chem.*
J. O. Page, B. S., *Jr. Chem.*
R. S. Roe, A. B., *Jr. Chem.*
F. C. Synkovich, B. S., *Jr. Chem.*
R. Young, *Chief Insp.*
J. C. O'Toole, *Sr. Insp.*
C. F. Sharpless, *Sr. Insp.*
J. T. Sullivan, *Sr. Insp.*
Artemus Brown, *Insp.*
Louisiana—New Orleans—
E. C. Boudreaux, A. B., *Acting Chief of Sta.*
M. Harris, B. S., *Jr. Chem.*
R. L. Horst, M. S., *Jr. Chem.*
J. H. Watkins, A. M., *Jr. Chem.*
G. H. Eigenberger, *Sr. Insp.*
J. L. Ahern, *Insp.*
J. Y. Breckenridge, Phar. B., *Insp.*
Minnesota—Minneapolis—
C. W. Harrison, M. S., *Chief of Sta.*
A. W. Hanson, B. Ch. E., *Assoc. Chem.*
C. B. Stone, A. M., *Asst. Chem.*
A. W. Garrett, LL. B., *Insp.*
Missouri—
Kansas City—
W. H. Hartigan, Phar. C., *Chief of Sta.*
N. E. Freeman, B. S., *Jr. Chem.*
M. O. Bourne, *Sr. Insp.*
St. Louis—
E. R. Smith, Phar. C., LL. B., *Chief of Sta.*
L. C. Mitchell, B. S., *Assoc. Chem.*
J. P. Aumer, B. S., *Asst. Chem.*
S. Alfend, B. S., *Jr. Chem.*
R. E. Sampson, *Insp.*
R. C. Stanfill, A. B., *Insp.*
W. B. Tiedt, *Insp.*
Ohio—Cincinnati—
H. D. Garrett, LL. B., *Chief of Sta.*
W. J. McCarthy, B. S., *Assoc. Chem.*
O. S. Keener, B. S., *Jr. Chem.*
V. E. Munsey, B. S., *Jr. Chem.*

Central District—Continued.
STATIONS—Continued.
Ohio—Cincinnati—Continued.
W. T. Ford, *Chief Insp.*
W. B. Simmons, *Sr. Insp.*
G. P. Larrick, *Insp.*
S. W. Ahlmann, *Naval Stores Exam.*

Western District (Hdqrs., San Francisco, Calif.):
Wendell Vincent, A. B., *Chief of Dist.*
P. B. Clark, Phar. C., *Asst. Chem.*

STATIONS:
California—
Los Angeles—
B. C. Winslow, M. S., *Chief Insp., in charge of Sta.*
J. E. Kimlel, Phar. C., *Sr. Insp.*
R. B. Born, B. S., *Insp.*
San Francisco—
G. J. Morton, B. S., *Chief of Sta.*
E. O. Eaton, Phar. C., *Assoc. Chem.*
H. J. Holland, B. S., *Assoc. Chem.*
H. J. Wichmann, A. M., *Assoc. Chem.*
W. C. Taber, M. S., *Asst. Chem.*
D. H. Tilden, B. S., *Asst. Chem.*
G. T. Daughters, B. S., *Jr. Chem.*
T. O. Kellems, M. S., *Jr. Chem.*
Q. Landis, B. S., *Jr. Chem.*
L. G. Petree, A. B., *Jr. Chem.*
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Carr, L. M., 70.
Carrero, J. C., 3.
Carroll, Charles C., 6.
Carroll, F. T., 36.
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Chase, A. G., 72.
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Clark, J. S., 12.
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Day, A. M., 54.
Day, Emily L., 64.
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